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New Hampshire

Occupational Employment

Statistics

Nonmanufacturing Industries

Mining
Construction
Finance, Insurance, Real Estate
Services

1987

New Hampshire Department of Employment Security

NEW HAMPSHIRE STAFFING PATTERNS

IN SELECTED NONMANUFACTURING

INDUSTRIES

1987

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Ma. and the national level in Washington, D. C. for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, with programming and data processing support provided by Richard Ricard, and data processing by Madaline Moulton.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid 1971 to meet the increasing demand for current occupational data. The program consists of three distinct segments: The survey; the industry-occupational matrix and the industry employment projections. This publication only presents the survey phase of the program.

The OES survey is a periodic mail survey of a sample of establishments selected from the ES-202. The survey is conducted over a three year cycle. Manufacturing and Hospitals are surveyed in the first year; one half the nonmanufacturing industries in the second year; and the remainder of nonmanufacturing industries in the third year. Data are collected from employing establishments primarily by mail with telephone followups and personal visits when an establishment's response is critical to the survey. The OES survey is based on a random sample, stratified by industry and size, and designed to represent the total or "universe" of establishments covered in the survey. These data are then used to estimate total nonfarm wage and salary employment by occupation and industry for the state and selected substate areas.

The industry-occupational matrix is a chart, or array which is divided into columns and rows. The columns represent divisions of industry, such as manufacturing, finance, insurance and real estate (FIRE), wholesale trade and services. The rows represent large occupational groupings, including professional, paraprofessional and technical workers, clerical workers and sales workers. Each column and row is subdivided to provide a more detailed matrix of industries and occupations. For example, in the banking industry, tellers are listed in the clerical group, and computer programmers are listed in the professional, paraprofessional and technical group. Also the banking industry is part of the finance, insurance and real estate division.

The industry employment projections by occupation are based on knowing the staffing patterns or occupational makeup of the industry (as determined by the OES survey) and the industry employment for the target year. The industry employment is projected to the target year using a statistical technique called "regression analysis." The projected occupational employment is obtained by applying the adjusted staffing pattern ratios.

Between April 1987 and July 1988, the New Hampshire Department of Employment Security conducted an occupational employment survey of selected nonmanufacturing industries by means of a questionnaire. This report was compiled from usable returns from the original mailing plus two follow-ups.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries.

The goal of the OES program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since they did not meet the publishing criteria. (See Appendix)

In the use and dissemination of this information please acknowledge:

New Hampshire Department of Employment Security
Economic Analysis and Reports Section
32 South Main Street
Concord, New Hampshire 03301-4857

SUMMARY

OCCUPATIONAL EMPLOYMENT IN

SELECTED NONMANUFACTURING INDUSTRIES

The survey of selected nonmanufacturing industries includes firms within mining and construction, finance, insurance, real estate and services. It does not include hospitals, educational institutions, regulated industries, wholesale and retail trade or government. Construction covers new work, additions, alterations and repairs. The three broad types of construction activity are: building, other than building and special trades. Finance, insurance and real estate includes banks and trust companies; credit agencies other than banks and security and commodity brokers; carriers of all types of insurance and insurance agents; and real estate operators, owners and lessors. Service industries include firms that provide services for individuals, businesses and government establishments.

There were 146,964 wage and salary workers employed in the selected nonmanufacturing industries in New Hampshire during the occupational survey period of the second quarter of 1987. This represented an increase of 41,699 workers or 39.6 percent from the previous survey conducted in 1984. Services accounted for over half of the workers (53.2 percent). This was followed by mining and contract construction (25.6 percent) and finance, insurance and real estate (21.2 percent). Within mining and construction, special trade contractors comprise over half of the 37,623 workers (52.3 percent) in this division. Finance and insurance in the finance, insurance and real estate division are about equally divided employment wise and they account for slightly over eighty percent of the employment in this division. Business services dominate the service industry with 23.9 percent of the employment followed by health services with 22.3 percent.

Selected nonmanufacturing workers were about equally distributed between the clerical (26.9 percent) and production (26.6 percent) occupational groups. Within the clerical group, general office clerks, bookkeeping, accounting and auditing clerks, secretaries, tellers, receptionists and information clerks and first line supervisors and manager/supervisors-clerical and administrative support occupations accounted for over half (55.3 percent) of the workers. The occupations which dominated the production group were carpenters, maintenance repairers, general utility, carpenter helpers, first line supervisors and manager/supervisors-construction trades and extractive workers, electricians, truck drivers, heavy or tractor trailer, painters and paperhangers and plumbers, pipefitters and steamfitters. These occupations comprised 45.6 percent of the occupations within the production occupational group.

Data for Mining and Quarrying of Nonmetallic Minerals, except Fuels (SIC 14), Security and Commodity Brokers, Dealers, Exchanges and Services (SIC 62), Combinations of Real Estate, Insurance Loans, Law Offices (SIC 66), Holding and other Investment Offices (SIC 67), Automotive Repair, Services, and Garages (SIC 75), Motion Pictures (SIC 78), Museums, Art Galleries, Botanical and Zoological Gardens (SIC 84), were not published since they did not meet the criteria for publication (see appendix).

Our sample consisted of 1,949 units representing, an employment of 66,397. Usable responses were received from 1,527 units or 78.4 percent of the units sampled. The reported employment was 51,716 or 77.9 percent of the employment in the sample.

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39999	SALES 40000-49999	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
14-17, 60-89	TOTAL	146,964	10.2	16.9	4.0	26.9	14.7	0.7	26.6
14-17	MINING AND CONTRACT CONSTRUCTION	37,623	10.6	3.1	0.8	9.0	0.2	0.1	76.2
15	BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS	12,859	15.0	2.6	0.1	8.5	*	0.2	73.6
152	General Building Contractors-Residential Buildings	9,554	15.5	2.5	0.1	9.0	*	0.2	72.7
154	General Building Contractors-Nonresidential Buildings	3,242	13.8	2.9	*	6.8	*	*	76.5
16	CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-GENERAL CONTRACTORS	4,445	7.3	6.1	0.6	6.1	1.2	0.1	78.6
161	Highways and Street Construction, Except Elevated Highways	2,131	6.7	2.0	0.7	6.7	2.4	0.2	81.3
162	Heavy Construction, Except Highway and Street Construction	2,314	7.8	9.9	0.4	5.6	0.2	*	76.1
17	CONSTRUCTION-SPECIAL TRADE CONTRACTORS	19,667	8.5	2.8	1.3	10.0	*	*	77.4
171	Plumbing, Heating (Except Electric), and Air Conditioning	3,612	8.2	3.7	2.0	15.0	*	*	71.1
173	Electrical Work	2,777	9.3	3.7	0.3	10.6	*	*	76.1
174	Masonry, Stonework, Tile Setting, and Plastering	2,551	5.5	0.9	1.6	7.7	*	*	84.3
179	Miscellaneous Special Trade Contractors	5,459	9.0	2.3	1.2	9.4	*	*	78.1
60-67	FINANCE, INSURANCE AND REAL ESTATE	31,093	12.9	12.2	7.6	59.0	3.9	1.3	3.1
60	BANKING	8,959	11.3	11.5	1.0	73.6	2.3	0.1	0.3
602	Commercial and Stock Savings Banks	7,067	11.7	11.4	1.0	73.2	2.2	0.1	0.2
603	Mutual Savings Banks	1,886	9.4	11.8	0.7	75.2	2.5	*	0.4

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39999	SALES 40000-49999	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
61	CREDIT AGENCIES OTHER THAN BANKS	3,122	15.2	19.2	3.3	60.2	1.6	*	0.5
63	INSURANCE	8,403	7.7	15.7	7.0	67.6	1.6	*	0.3
631	Life Insurance	1,624	8.6	11.8	28.8	49.9	0.4	*	0.5
632	Accident And Health Insurance And Medical Service Plans	1,292	5.6	3.5	2.8	85.3	2.0	*	0.8
633	Fire, Marine And Casualty Insurance	5,423	7.9	19.7	1.5	68.9	1.8	*	0.2
64	INSURANCE AGENTS, BROKERS, AND SERVICE	3,069	11.5	10.3	13.5	64.0	0.7	*	*
65	REAL ESTATE	6,181	21.9	4.7	13.0	27.0	12.8	6.1	14.4
653	Real Estate Agents and Managers	3,281	22.4	1.7	18.0	32.7	9.8	4.6	10.8
70-89	SERVICES (SIC 806 AND 82 EXCLUDED)	78,248	8.9	25.4	4.2	22.6	26.1	0.8	12.0
70	HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES	7,742	13.9	5.2	4.1	17.6	52.9	1.8	4.4
701	Hotels, Motels and Tourist Courts	7,342	13.7	4.1	4.0	17.6	54.8	1.6	4.3
72	PERSONAL SERVICES	5,465	5.9	15.4	7.7	11.7	33.2	*	26.0
721	Laundry, Cleaning, and Garment Services	1,961	5.0	0.4	14.6	6.2	3.3	0.1	70.4
723	Beauty Shops	1,833	5.1	2.5	0.5	6.5	85.4	*	*
73	BUSINESS SERVICES	18,690	9.7	15.6	6.0	29.8	22.2	0.7	16.0
734	Services to Dwellings and Other Buildings	2,649	3.5	0.3	0.1	6.0	82.4	0.2	7.4
736	Personnel Supply Services	5,254	1.8	15.3	1.7	43.7	10.4	0.2	27.0
737	Computer and Data Processing Services	2,820	16.2	26.3	7.8	45.7	*	*	3.9
739	Miscellaneous Business Services	6,775	14.2	15.1	11.7	18.3	21.0	1.7	17.9

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39999	SALES 40000-49999	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
75	AUTOMOTIVE REPAIR, SERVICES, AND GARAGES	3,247	9.5	1.6	10.5	11.9	1.1	*	65.4
753	Automotive Repair Shops	2,369	8.4	0.8	5.3	11.3	1.4	*	72.9
76	MISCELLANEOUS REPAIR SERVICES	1,036	9.9	2.1	12.0	14.0	1.0	*	61.0
79	AMUSEMENT AND RECREATION SERVICES, EXCEPT MOTION PICTURES	4,037	8.6	13.4	13.7	7.2	38.0	8.7	10.4
799	Miscellaneous Amusement and Recreation Services	2,604	9.0	12.8	7.9	9.2	39.6	10.1	11.4
80	HEALTH SERVICES	17,414	4.0	38.4	0.4	22.3	31.4	*	3.5
801	Offices of Physicians	4,689	2.4	54.1	0.4	38.9	4.1	*	*
802	Offices of Dentists	2,319	1.6	32.6	0.3	32.2	30.8	*	2.6
805	Nursing and Personal Care Facilities	5,134	3.3	25.4	*	5.2	61.4	*	4.7
808	Outpatient Care Facilities	2,597	7.9	44.6	0.8	20.9	22.7	*	3.1
809	Health and Allied Services, Not Elsewhere Classified	1,302	7.8	30.6	1.1	10.0	48.2	*	2.4
81	LEGAL SERVICES	3,832	1.4	45.2	*	52.2	1.2	*	*
83	SOCIAL SERVICES	7,532	12.0	36.2	0.5	20.3	25.0	0.1	5.9
833	Job Training and Vocational Rehabilitation Services	1,018	12.8	33.7	1.7	24.0	14.1	0.5	13.3
835	Child Day Care Services	1,878	9.2	37.3	*	27.4	24.8	*	1.3
836	Residential Care	2,118	9.3	42.7	*	9.5	35.6	*	2.8
839	Social Services, Not Elsewhere Classified	1,476	12.9	27.0	1.2	25.1	22.8	*	10.9

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39999	SALES 40000-49999	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
86	MEMBERSHIP ORGANIZATIONS	2,825	21.2	18.9	2.7	18.8	34.7	0.6	3.1
864	Civic, Social, and Fraternal Associations	1,821	10.5	21.6	0.2	11.1	52.1	*	4.6
89	MISCELLANEOUS SERVICES	5,708	10.9	58.4	1.6	23.2	0.9	*	4.9
891	Engineering, Architectural, and Surveying Services	3,964	10.7	64.9	2.0	14.6	0.7	*	7.0
893	Accounting, Auditing and Bookkeeping	1,554	9.0	45.6	0.7	43.2	1.5	*	*

* LESS THAN 0.05 PERCENT

SELECTED NONMANUFACTURING INDUSTRIES

(SIC 14-17, 60-89)
INDUSTRIES 806 and 82 EXCLUDED
EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1984 - SECOND QUARTER 1987)

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
14-17, 60-89	TOTAL	146,964*	105,265*	41,699	39.6
14-17	MINING AND CONTRACT CONSTRUCTION	37,623	23,412	14,211	64.7
15	BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS	12,859	7,057	5,802	82.2
152	General Building Contractors-Residential Buildings	9,554	5,228	4,326	82.7
154	General Building Contractors-Nonresidential Buildings	3,242	1,743	1,499	86.0
16	CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-GENERAL CONTRACTORS	4,445	4,639	-194	-4.2
161	Highways and Street Construction, Except Elevated Highways	2,131	1,633	498	30.5
162	Heavy Construction, Except Highway and Street Construction	2,314	3,006	-692	-23.0
17	CONSTRUCTION-SPECIAL TRADE CONTRACTORS	19,667	11,301	8,366	74.0
171	Plumbing, Heating (Except Electric), and Air Conditioning	3,612	2,006	1,606	80.0
173	Electrical Work	2,777	1,775	1,002	56.5
174	Masonry, Stonework, Tile Setting, and Plastering	2,551	1,648	903	54.8
179	Miscellaneous Special Trade Contractors	5,459	3,092	2,367	76.6
60-67	FINANCE, INSURANCE AND REAL ESTATE	31,093	22,630	8,463	37.4
60	BANKING	8,959	6,986	1,973	28.2
602	Commercial and Stock Savings Banks	7,067	4,828	2,239	46.4
603	Mutual Savings Banks	1,886	2,158	-272	-12.6
61	CREDIT AGENCIES OTHER THAN BANKS	3,122	1,820	1,302	71.5
63	INSURANCE	8,403	7,310	1,093	14.9

SELECTED NONMANUFACTURING INDUSTRIES

(SIC 14-17, 60-89)
INDUSTRIES 806 and 82 EXCLUDED
EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1984 - SECOND QUARTER 1987)

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
631	Life Insurance	1,624	1,411	213	15.1
632	Accident and Health Insurance and Medical Service Plans	1,292	1,009	283	28.0
633	Fire, Marine and Casualty Insurance	5,423	4,863	560	11.5
64	INSURANCE AGENTS, BROKERS, AND SERVICE	3,069	2,314	755	32.6
65	REAL ESTATE	6,181	3,181	3,000	94.3
653	Real Estate Agents and Managers	3,281	1,894	1,387	73.2
70-89	SERVICES (SIC 806 AND 82 EXCLUDED)	78,248	59,223	19,025	32.1
70	HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES	7,742	6,602	1,140	17.3
701	Hotels, Motels and Tourist Courts	7,342	6,234	1,108	17.8
72	PERSONAL SERVICES	5,465	4,287	1,178	27.5
721	Laundry, Cleaning, and Garment Services	1,961	1,725	236	13.7
723	Beauty Shops	1,833	1,359	474	34.9
73	BUSINESS SERVICES	18,690	12,636	6,054	47.9
734	Services to Dwellings and Other Buildings	2,649	2,229	420	18.8
736	Personnel Supply Services	5,254	3,051	2,203	72.2
737	Computer and Data Processing Services	2,820	2,009	811	40.4
739	Miscellaneous Business Services	6,775	4,264	2,511	58.9
75	AUTOMOTIVE REPAIR, SERVICES, AND GARAGES	3,247	2,584	663	25.7
753	Automotive Repair Shops	2,369	1,889	480	25.4
76	MISCELLANEOUS REPAIR SERVICES	1,036	875	161	18.4
79	AMUSEMENT AND RECREATION SERVICES, EXCEPT MOTION PICTURES	4,037	3,419	618	18.1
799	Miscellaneous Amusement and Recreation Services	2,604	2,210	394	17.8

SELECTED NONMANUFACTURING INDUSTRIES

(SIC 14-17, 60-89)
INDUSTRIES 806 and 82 EXCLUDED
EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1984 - SECOND QUARTER 1987)

SIC CODE	INDUSTRY	SECOND QTR. 1987 ESTIMATED EMPLOYMENT	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
80	HEALTH SERVICES	17,414	13,789	3,625	26.3
801	Offices of Physicians	4,689	3,649	1,040	28.5
802	Offices of Dentists	2,319	1,921	398	20.7
805	Nursing and Personal Care Facilities	5,134	4,551	583	12.8
808	Outpatient Care Facilities	2,597	1,706	891	52.2
809	Health and Allied Services, Not Elsewhere Classified	1,302	979	323	33.0
81	LEGAL SERVICES	3,832	2,690	1,142	42.5
83	SOCIAL SERVICES	7,532	5,575	1,957	35.1
833	Job Training and Vocational Rehabilitation Services	1,018	1,100	-82	-7.5
835	Child Day Care Services	1,878	1,285	593	46.1
836	Residential Care	2,118	1,355	763	56.3
839	Social Services, Not Elsewhere Classified	1,476	1,062	414	39.0
86	MEMBERSHIP ORGANIZATIONS	2,825	2,629	196	7.5
864	Civic, Social, and Fraternal Associations	1,821	1,655	166	10.0
89	MISCELLANEOUS SERVICES	5,708	3,470	2,238	64.5
891	Engineering, Architectural, and Surveying Services	3,964	2,223	1,741	78.3
893	Accounting, Auditing and Bookkeeping	1,554	996	558	56.0

* TOTALS INCLUDE ESTIMATES FOR THE ENTIRE SURVEY, INCLUDING INDUSTRIES WHICH HAVE NOT MET PUBLICATION CRITERIA.

THE TWENTY FIVE OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN SELECTED NONMANUFACTURING INDUSTRIES

Forty-four percent of the covered employees in the selected nonmanufacturing industries were employed in the twenty-five specific occupations listed below. These specific occupations comprise only 7.6 percent of the grand total of 328 specific occupations employing ten or more workers.

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87102	Carpenters	6,212	4.2
2	19005	General Managers and Top Executives	6,020	4.1
3	55347	General Office Clerks	5,277	3.6
4	55338	Bookkeeping, Accounting, and Auditing Clerks	4,813	3.3
5	55100	Secretaries	3,826	2.6
6	13002	Financial Managers	2,980	2.0
7	67005	Janitors and Cleaners-Except Maids and Housekeeping Cleaners	2,819	1.9
8	53102	Tellers	2,728	1.9
9	55305	Receptionists and Information Clerks	2,659	1.8
10	51002	First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	2,518	1.7
11	66008	Nursing Aides, Orderlies, and Attendants	2,464	1.7
12	32502	Registered Nurses	2,254	1.5
13	85132	Maintenance Repairers, General Utility	2,012	1.4
14	98312	Helpers-Carpenters and Related	1,848	1.3
15	81005	First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	1,766	1.2
16	87202	Electricians	1,657	1.1
17	15017	Construction Managers	1,602	1.1
18	97102	Truck Drivers, Heavy Or Tractor Trailer	1,580	1.1
19	65008	Waiters and Waitresses	1,568	1.1
20	68005	Hairdressers, Hairstylists, and Cosmetologists	1,491	1.0
21	67002	Maids and Housekeeping Cleaners	1,447	1.0
22	63047	Guards and Watch Guards	1,407	1.0
23	87402	Painters and Paperhangers	1,380	0.9
24	87502	Plumbers, Pipefitters and Steamfitters	1,361	0.9
25	21114	Accountants and Auditors	1,297	0.9

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		146,964	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	14,968	10.2
Financial Managers	13002	2,980	2.0
Personnel, Training, and Labor Relations Managers	13005	314	0.2
Purchasing Managers	13008	118	0.1
Marketing, Advertising and Public Relations Managers	13011	745	0.5
Administrative Services Managers	13014	516	0.4
Engr., Math. & Nat. Sciences Managers	13017	211	0.1
Education Administrators	15005	161	0.1
Medicine & Health Services Managers	15008	280	0.2
Property and Real Estate Managers and Administrators	15011	612	0.4
Construction Managers	15017	1,602	1.1
Mining, Quarrying and Well Drilling Managers	15021	17	*
Food Service and Lodging Managers	15026	498	0.3
General Managers and Top Executives	19005	6,020	4.1
All Other Managers and Administrators	19999	894	0.6
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	24,807	16.9
Underwriters	21102	591	0.4
Credit Analysts	21105	229	0.2
Loan Officers and Counselors	21108	908	0.6
Tax Preparers	21111	129	0.1
Accountants and Auditors	21114	1,297	0.9
Budget Analysts	21117	41	*
All Other Financial Specialists	21199	157	0.1
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	94	0.1
Special Agents, Insurance	21505	37	*
Employment Interviewers, Private or Public Employment Service	21508	241	0.2
Personnel, Training and Labor Relations Specialists	21511	305	0.2
Cost Estimators	21902	717	0.5
Management Analysts	21905	228	0.2

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Compliance Officers and Enforcement Inspectors, Except Construction	21911	14	*
Claims Examiners, Property and Casualty Insurance	21921	84	0.1
All Other Management Support Workers	21999	231	0.2
Chemical Engineers	22114	62	*
Nuclear Engineers	22117	32	*
Civil Engineers, Including Traffic	22121	372	0.3
Electrical and Electronic Engineers	22126	332	0.2
Industrial Engineers, Except Safety	22128	11	*
Safety Engineers, Except Mining	22132	43	*
Mechanical Engineers	22135	273	0.2
All Other Engineers	22199	96	0.1
Architects, Except Landscape & Marine	22302	283	0.2
Landscape Architects	22308	101	0.1
Surveying and Mapping Scientists	22311	283	0.2
Civil Engineering Technicians and Technologists	22502	161	0.1
Electrical and Electronic Engineering Technicians and Technologists	22505	151	0.1
Mechanical Engineering Technicians and Technologists	22511	42	*
Drafters	22514	714	0.5
Surveying and Mapping Technicians and Technologists	22521	310	0.2
All Other Engineering and Related Technicians and Technologists	22599	66	*
Geologists, Geophysicists, and Oceonographers	24111	88	0.1
All Other Physical Scientists	24199	14	*
Medical Scientists	24311	21	*
Biological Scientists	24308	44	*
All Other Physical and Life Science Technicians and Technologists	24599	62	*
Systems Analysts, Electronic Data Processing	25102	503	0.3
Computer Programmers	25105	688	0.5
Computer Programmer Aides	25108	146	0.1
Operations and Systems Researchers and Analysts, Except Computer	25302	136	0.1
Statisticians	25312	49	*
Actuaries	25313	47	*
Financial Analysts, Statistical	25315	31	*
All Other Mathematical Scientists	25319	22	*

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Psychologists	27108	101	0.1
Social Workers, Medical and Psychiatric	27302	589	0.4
Social Workers, Except Medical and Psychiatric	27305	418	0.3
Social Service Technicians	27308	451	0.3
Recreational Workers	27311	449	0.3
Clergy	27502	19	*
Lawyers	28108	1,161	0.8
Legal Assistants	28300	12	*
Law Clerks	28302	118	0.1
Paralegal Personnel	28305	452	0.3
Title Examiners and Abstractors	28311	85	0.1
All Other Legal Assistants and Technicians, Except Clerical	28399	15	*
Lecturers	31111	129	0.1
Nursing Instructors	31114	10	*
Teachers, Preschool and Kindergarten	31302	781	0.5
Teachers and Instructors, Vocational Education and Training	31314	106	0.1
Instructors, Nonvocational Education	31317	383	0.3
Instructors and Coaches, Sports and Physical Training	31321	516	0.4
All Other Teachers and Instructors	31399	212	0.1
Librarians, Professional	31502	27	*
Curators, Archivists and Museum Technicians and Restorers	31511	14	*
Vocational and Educational Counselors	31514	55	*
Instructional Coordinators	31517	76	0.1
Physicians and Surgeons	32102	1,115	0.8
Dentists	32105	173	0.1
Optometrists	32108	12	*
Podiatrists	32111	54	*
All Other Health Diagnosing and Treating Practitioners	32199	7	*
Respiratory Therapists	32302	68	0.1
Occupational Therapists	32305	102	0.1
Physical Therapists	32308	205	0.1
Speech Pathologists and Audiologists	32314	48	*
Recreational Therapists	32317	48	*
All Other Therapists	32399	1	*
Registered Nurses	32502	2,254	1.5
Licensed Practical Nurses	32505	982	0.7
Physicians Assistants	32511	145	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Opticians, Dispensing and Measuring	32514	212	0.1
Dietitians and Nutritionists	32521	66	*
Dietetic Technicians	32523	50	*
Medical and Clinical Laboratory Technologists	32902	205	0.1
Medical and Clinical Laboratory Technicians	32905	106	0.1
Dental Hygienists	32908	571	0.4
Medical Records Technicians and Technologists	32911	60	*
Radiologic Technicians	32921	179	0.1
All Other Health Professionals	32999	127	0.1
Writers and Editors	34002	70	0.1
Public Relations Specialists and Publicity Writers	34008	199	0.1
Photographers	34023	173	0.1
Artists and Related Workers	34035	191	0.1
Designers, Except Interior	34038	166	0.1
Interior Designers	34041	16	*
Dancers and Choreographers	34053	20	*
Producers, Directors, Actors and Other Entertainers	34056	65	*
Funeral Directors	39011	94	0.1
Embalmers	39014	18	*
All Other Professional, Paraprofessional and Technical Workers	39999	340	0.2
SALES OCCUPATIONS	40000-49999	5,941	4.0
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	836	0.6
Sales Agents and Placers-Insurance	43002	749	0.5
Brokers, Real Estate	43005	177	0.1
Sales Agents, Real Estate	43008	446	0.3
Appraisers, Real Estate	43011	137	0.1
Sales Agents, Securities, Commodities, and Financial Services	43014	337	0.2
Sales Agents, Selected Business	43017	232	0.2
Travel Agents	43021	39	*
Sales Agents, Advertising	43023	10	*
All Other Sales Representatives and Sales Persons, Service	43099	164	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Sales Engineers	49002	102	0.1
Sales Representatives, Scientific and Related Products and Service-Except Retail	49005	110	0.1
Sales Representatives, Except Scientific and Related Products, or Services and Retail	49008	372	0.3
Sales Persons, Retail	49011	49	*
Sales Persons, Parts	49014	42	*
Counter and Rental Clerks	49017	1,056	0.7
Cashiers	49023	857	0.6
News Venders, Telephone Solicitors and Related	49026	45	*
Demonstrators, Promoters and Models	49032	32	*
All Other Sales and Related Workers	49999	149	0.1
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	39,465	26.9
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	51002	2,518	1.7
Tellers	53102	2,728	1.9
New Accounts Clerks	53105	720	0.5
Transit Clerks	53108	126	0.1
Loan Interviewers	53111	158	0.1
Credit Authorizers	53114	14	*
Credit Checkers	53117	123	0.1
Loan and Credit Clerks	53121	916	0.6
Adjustment Clerks	53123	165	0.1
Statement Clerks	53126	286	0.2
Brokerage Clerks	53128	131	0.1
Insurance Adjusters, Examiners, and Investigators	53302	472	0.3
Insurance Appraisers, Auto Damage	53305	19	*
Insurance Claims Clerks	53311	431	0.3
Insurance Policy Processing Clerks	53314	1,226	0.8
Welfare Eligibility Workers and Interviewers	53502	83	0.1
Bill and Account Collectors	53508	431	0.3
Travel Clerks	53802	19	*
Reservation and Ticket Agents	53805	18	*
Hotel Desk Clerks	53808	482	0.3
Teacher Aides and Educational Asst's.	53905	585	0.4

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Proofreaders and Copy Markers	53911	28	*
Real Estate Clerks	53914	85	0.1
Secretaries	55100	3,826	2.6
Legal Secretaries	55102	1,249	0.8
Medical Secretaries	55105	795	0.5
All Other Secretaries	55199	1,249	0.8
Stenographers	55302	67	0.1
Receptionists and Information Clerks	55305	2,659	1.8
Typists	55308	613	0.4
Typists, Word Processing	55311	753	0.5
Personnel Clerks, Except Payroll and Timekeeping	55314	110	0.1
Correspondence Clerks	55317	106	0.1
File Clerks	55321	997	0.7
Order Clerks	55323	71	0.1
Statistical Clerks	55328	112	0.1
Interviewing Clerks, Except Personnel and Social Welfare	55332	37	*
Bookkeeping, Accounting, and Auditing Clerks	55338	4,813	3.3
Payroll and Timekeeping Clerks	55341	328	0.2
Billing, Cost and Rate Clerks	55344	420	0.3
General Office Clerks	55347	5,277	0.4
Billing, Posting, and Calculating Machine Operators	56002	106	0.1
Duplicating Machine Operators	56005	67	0.1
Mail Machine Operators, Preparation and Handling	56008	99	0.1
Computer Operators, Except Peripheral Equipment	56011	480	0.3
Peripheral EDP Equipment Operators	56014	44	*
Data Entry Keyers, Except Composing	56017	952	0.6
Data Entry Keyers, Composing	56021	86	0.1
All Other Office Machine Operators	56099	35	*
Switchboard Operators	57102	531	0.4
Telegraph Operators	57111	10	*
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	303	0.2
Messengers	57311	272	0.2
Dispatchers, Except Police, Fire, and Ambulance	58005	37	*
Weighers, Measurers, Checkers, and Samplers-Recordkeeping	58017	24	*
Stock Clerks-Stockroom, Warehouse, or Storage Yard	58023	379	0.3

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Traffic, Shipping, and Receiving Clerks	58028	69	*
All Other Material Recording, Scheduling, and Distributing Workers	58099	55	*
All Other Clerical and Administrative Support Workers	59999	670	0.5
SERVICE OCCUPATIONS	60000-69999	21,678	14.7
First Line Supervisors and Manager/ Supervisors-Service	61000	76	0.1
Housekeepers	61008	692	0.5
All Other Supervisors and Manager/Supervisors	61099	167	0.1
Detectives and Investigators, Except Public	63035	183	0.1
Crossing Guards	63044	40	*
Guards and Watch Guards	63047	1,407	1.0
All Other Protective Service Workers	63099	35	*
Food and Beverage Preparation and Service Occupations	65000	134	0.1
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop	65002	109	0.1
Bartenders	65005	1,116	0.8
Waiters and Waitresses	65008	1,568	1.1
Food Servers, Outside	65011	61	*
Dining Room and Cafeteria Attendants and Bartender Helpers	65014	319	0.2
Counter Attendants-Lunch Room, Coffee Shop, or Cafeteria	65017	111	0.1
Bakers, Bread and Pastry	65021	21	*
Cooks, Restaurant	65026	442	0.3
Cooks, Institution or Cafeteria	65028	352	0.2
Cooks, Specialty-Fast Food	65032	22	*
Cooks, Short Order	65035	45	*
Food Preparation Workers	65038	1,106	0.8
Combined Food Preparation and Service Workers	65041	38	*
All Other Food Service Workers	65099	54	*
Dental Assistants	66002	681	0.5
Medical Assistants	66005	213	0.1
Nursing Aides, Orderlies, and Attendants	66008	2,464	1.7
Home Health Aides	66011	1,005	0.7

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Psychiatric Aides	66014	51	*
Physical and Corrective Therapy Assistants and Aides	66017	38	*
Occupational Therapy Assistants and Aides	66021	24	*
All Other Health Service Workers	66099	246	0.2
Maids and Housekeeping Cleaners	67002	1,447	1.0
Janitors and Cleaners-Except Maids and Housekeeping Cleaners	67005	2,819	1.9
Pest Controllers and Assistants	67008	130	0.1
All Other Cleaning and Building Service Workers, Except Private Households	67099	445	0.3
Barbers	68002	43	*
Hairdressers, Hairstylists, and Cosmetologists	68005	1,491	1.0
Manicurists	68008	69	*
Amusement and Recreation Attendants	68014	306	0.2
Guides	68017	23	*
Ushers, Lobby Attendants, and Ticket Takers	68021	279	0.2
Baggage Porters and Bellhops	68023	64	*
Social Welfare Service Aides	68035	344	0.2
Child Care Workers	68038	599	0.4
All Other Service Workers	69999	322	0.2
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	1,069	0.7
Gardeners and Groundskeepers, Except Farm	79014	966	0.7
Animal Caretakers, Except Farm	79017	87	0.1
All Other Agricultural, Forestry, Fishing and Related Workers	79999	16	*
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	39,036	26.6
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	81002	168	0.1
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	81005	1,766	1.2

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors and Manager/ Supervisors-Transportation and Material Moving Machine and Vehicle Occupations	81011	16	*
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers and Material Movers, Hand	81017	60	*
All Other First Line Supervisors and Manager/Supervisors-Production, Maintenance and Related	81099	330	0.2
Precision Inspectors, Testers and Graders	83000	78	0.1
Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	83005	88	0.1
All Other Inspectors, Testers, and Related Occupations	83099	68	0.1
Machinery Maintenance Mechanics	85110	17	*
Millwrights	85123	24	*
Machinery Maintenance Workers	85128	16	*
Maintenance Repairers, General Utility	85132	2,012	1.4
Automotive Mechanics	85302	557	0.4
Automotive Body and Related Repairers	85305	487	0.3
Bus and Truck Mechanics, and Diesel Engine Specialists	85311	156	0.1
Mobile Heavy Equipment Mechanics, Except Engines	85314	206	0.1
Small Engine Specialists	85328	61	*
Radio Mechanics	85514	18	*
All Other Communication Equipment Mechanics	85599	7	*
Telephone and Cable Television Line Installers and Repairers	85702	141	0.1
Data Processing Equipment Repairers	85705	85	0.1
Electric Home Appliance and Power Tool Repairers	85711	21	*
Electric Motor, Transformer, and Related Repairers	85714	59	*
Electronics Repairers, Commercial and Industrial Equipment	85717	42	*
Electrical Powerline Installers and Repairers	85723	148	0.1
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	81	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Heating, Air Conditioning and Refrigeration Mechanics and Installers	85902	490	0.3
Electromedical and Biomedical Equipment Repairers	85908	12	*
Office Machine and Cash Register Servicers	85926	10	*
Coin and Vending Machine Servicers and Repairers	85947	13	*
Tire Repairers and Changers	85953	68	0.1
Menders-Garments, Linens, and Related	85956	28	*
All Other Mechanics, Installers and Repairers	85999	264	0.2
Carpenters	87102	6,212	4.2
Ceiling Tile Installers and Acoustical Carpenters	87105	107	0.1
Drywall Installers	87108	618	0.4
Tapers	87111	272	0.2
Lathers	87114	48	*
Electricians	87202	1,657	1.1
Brick Masons	87302	548	0.4
Stone Masons	87305	42	*
Hand Tile Setters	87308	23	*
Concrete and Terrazzo Finishers	87311	388	0.3
Reinforcing Metal Workers	87314	20	*
Plasterers and Stucco Masons	87317	39	*
Painters and Paperhangers	87402	1,380	0.9
Plumbers, Pipefitters and Steamfitters	87502	1,361	0.9
Pipelayers	87508	428	0.3
Septic Tank Servicers and Sewer Pipe Cleaners	87511	24	*
Carpet Installers	87602	24	*
Floor Layers	87605	44	*
Air Hammer Operators	87702	120	0.1
Paving, Surfacing, and Tamping Equipment Operators	87708	371	0.3
Insulation Workers	87802	367	0.2
Sheet Metal Duct Installers	87805	194	0.1
Roofers	87808	337	0.2
Glaziers	87811	213	0.1
Structural Metal Workers	87814	86	0.1
Fence Erectors	87817	385	0.3
All Other Construction Trades Workers	87899	195	0.1
Earth Drillers, Except Oil and Gas	87902	147	0.1
Blasters and Explosives Workers	87905	132	0.1
Rock Splitter, Quarry	87908	17	*

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Construction and Extractive Workers, Except Helpers	87999	304	0.2
Machinists	89108	177	0.1
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	29	*
Sheet Metal Workers	89132	278	0.2
Boilermakers	89135	10	*
Cabinetmakers and Bench Carpenters	89311	90	0.1
All Other Precision Wood Workers	89399	4	*
Custom Tailors and Sewers	89505	50	*
Upholsterers	89508	43	*
Leather Workers and Repairers	89511	16	*
Spotters, Dry Cleaning	89514	37	*
Pressers, Delicate Fabrics	89517	98	0.1
Precision Dental Laboratory Technicians	89921	241	0.2
All Other Precision Workers	89999	79	0.1
Machine Forming Operators and Tenders, Metal and Plastic	91321	68	0.1
Metal Fabricators, Structural Metal Products	91714	163	0.1
Printing Press Machine Operators and Tenders	92543	36	*
Bindery Machine Operators	92546	13	*
Sewing Machine Operators, Non-Garment	92721	10	*
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	92726	694	0.5
Pressing Machine Operators and Tenders-Textile, Garment and Related Materials	92728	218	0.1
Motion Picture Projectionists	92905	54	*
Photographic Processing Machine Operators and Tenders	92908	41	*
Painters, Transportation Equipment	92947	20	*
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	84	0.1
Packaging and Filling Machine Operators and Tenders	92974	31	*
All Other Machine Setters and Set-Up Operators	92997	34	*
All Other Machine Operators and Tenders	92998	94	0.1
Welders and Cutters	93914	292	0.2
Solderers and Brazers	93917	81	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Pressers, Hand	93921	50	*
Painting, Coating and Decorating Workers, Hand	93947	11	*
All Other Hand Workers	93999	783	0.5
All Other Plant and System Operators	95099	3	*
Truck Drivers, Heavy or Tractor Trailer	97102	1,580	1.1
Truck Drivers, Light-Including Delivey and Route Workers	97105	444	0.3
Bus Drivers	97108	284	0.2
Bus Drivers, School	97111	26	*
Driver/Sales Workers	97117	145	0.1
All Other Motor Vehicle Operators	97199	152	0.1
Air Pilots and Flight Engineers	97702	51	*
Service Station Attendants	97805	172	0.1
Parking Lot Attendants	97808	93	0.1
All Other Transportation and Related Workers	97899	13	*
Excavating and Loading Machine Operators	97923	947	0.6
Dragline Operators	97926	13	*
Grader, Dozer, & Scraper Operators	97938	649	0.4
Hoist & Winch Operators	97941	87	0.1
Crane and Tower Operators	97944	40	*
Industrial Truck and Tractor Operators	97947	199	0.1
Operating Engineers	97956	343	0.2
All Other Transportation and Material Moving Equipment Operators	97989	50	*
All Other Material Moving Equipment Operators	97999	40	*
Mechanic and Repairer Helpers	98102	162	0.1
Helpers, Brick and Stone Masons Hard Tile Setters	98311	368	0.3
Helpers-Carpenters and Related	98312	1,848	1.3
Helpers-Electricians and Powerline Transmission Installers	98313	315	0.2
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons	98314	69	0.1
Helpers-Plumbers, Pipefitters and Steamfitters	98315	680	0.5
Helpers-Roofers	98316	119	0.1
Helpers-All Other Construction Trades	98319	109	0.1
Helpers-Extractive Workers	98323	257	0.2

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Feeders and Offbearers	98502	20	*
Freight, Stock and Material Movers, Hand	98700	391	0.3
Hand Packers and Packagers	98902	46	*
Vehicle Washers and Equipment Cleaners	98905	168	0.1
All Other Helpers, Laborers, and Material Movers, Hand	98999	1,524	1.0

* LESS THAN 0.05 PERCENT

OCCUPATIONAL EMPLOYMENT
MINING AND CONTRACT CONSTRUCTION

(SIC 14-17)

Mining (SIC 14) includes firms engaged in the extraction of nonmetallic minerals, except fuels. The exploration of resources, well drilling and milling (crushing, washing and sorting) are included in this subdivision. The three broad types of construction activity are: residential and commercial building construction by general building contractors who may combine a special trade with their general contracting (SIC 15); general contractors in construction other than commercial or residential building such as highways, streets, dams etc. (SIC 16); special trade contractors involved in specialized activities such as plumbing, painting, carpentering and plastering (SIC 17). Special trade contractors often work under subcontracts from a general contractor and perform only a specialized part of the work covered by the general contract.

There were 37,623 wage and salry workers employed in mining and contract construction industries during the second quarter of 1987. Compared with the previous survey conducted in 1984, this represents an increase of 14,211 workers (60.7 percent). The major occupational group employing the greatest number of workers in mining and contract construction was the production, construction, operating maintenance, and material handling occupations with 28,668 workers (76.2 percent). Within this division the dominant occupations were carpenters and carpenter helpers with 7,811 workers, (20.7 percent). This represents an increase of 3,583 workers (84.7 percent) from the previous survey conducted in 1984 and reflects the rapid growth in new housing, especially condominiums in New Hampshire.

THE FIFTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN MINING AND CONSTRUCTION

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87102	Carpenters	5,963	15.8
2	98312	Helpers-Carpenters and Related	1,848	4.9
3	81005	First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	1,763	4.7
4	19005	General Managers and Top Executives	1,644	4.4
5	87202	Electricians	1,638	4.4
6	97102	Truck Drivers, Heavy Or Tractor Trailer	1,580	4.2
7	15017	Construction Managers	1,554	4.1
8	87502	Plumbers and Pipefitters	1,345	3.6
9	87402	Painters and Paperhangers	1,204	3.2
10	55338	Bookkeeping, Accounting, and Auditing Clerks	1,103	2.9
11	55100	Secretaries	960	2.6
12	97923	Excavating and Loading Machine Operators	947	2.5
13	55347	General Office Clerks	787	2.1
14	21902	Cost Estimators	700	1.9
15	98315	Helpers-Plumbers, Pipefitters and Steamfitters	696	1.8

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		37,623	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	4,004	10.6
Financial Managers	13002	692	1.8
Purchasing Managers	13008	15	*
Marketing, Advertising, and Public Relations Managers	13011	47	0.1
Construction Managers	15017	1,554	4.1
Mining Quarrying, and Oil and Gas Well Drilling Managers	15021	17	*
General Managers and Top Executives	19005	1,644	4.4
All Other Managers and Administrators	19999	35	0.1
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,160	3.1
Accountants and Auditors	21114	49	0.1
Purchasing Agents, Except Wholesale, Retail, and Farm Products	21308	31	0.1
Cost Estimators	21902	700	1.9
All Other Management Support Workers	21999	9	*
Civil Engineers, Including Traffic	22121	69	0.2
Mechanical Engineers	22135	107	0.3
All Other Engineers	22199	53	0.1
Electrical and Electronic Engineering Technicians and Technologists	22505	17	*
Drafters	22514	69	0.2
All Other Engineering and Related Technicians and Technologists	22599	12	*
Computer Programmers	25105	13	*
All Other Professional, Paraprofessional and Technical Workers	39999	31	0.1
SALES OCCUPATIONS	40000-49999	298	0.8
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	41002	26	0.1
Sales Engineers	49002	44	0.1
Sales Representatives, Except Scientific and Related Products Or Services and Retail	49008	204	0.5

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Sales and Related Workers	49999	24	0.1
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	3,398	9.0
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	51002	64	0.2
Secretaries	55100	960	2.6
Receptionists and Information Clerks	55305	29	0.1
Personnel Clerks, Except Payroll and Timekeeping	55314	12	*
Bookkeeping, Accounting, and Auditing Clerks	55338	1,103	2.9
Payroll and Timekeeping Clerks	55341	140	0.4
Billing, Cost and Rate Clerks	55344	12	*
General Office Clerks	55347	787	2.1
All Other Office Machine Operators	56099	18	*
Weighers, Measurers, Checkers and Samplers-Recordkeeping	58017	24	0.1
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	211	0.6
All Other Material Recording, Scheduling, and Distributing Workers	58099	30	0.1
All Other Clerical and Administrative Support Workers	59999	8	*
SERVICE OCCUPATIONS	60000-69999	66	0.2
First Line Supervisors and Manager/ Supervisors-Service	61000	12	*
Crossing Guards	63044	40	0.1
Janitors and Cleaners	67005	12	*
All Other Cleaners and Building Service Workers	67099	2	*
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	29	0.1
GARDENERS AND GROUNDSKEEPERS	79014	29	0.1

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
PRODUCTION, CONSTRUCTION OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	28,668	76.2
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers, and Repairers	81002	36	0.1
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	81005	1,763	4.7
First Line Supervisors and Manager/ Supervisors-Transportation and Material Moving Machine and Vehicle Occupations	81011	16	*
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand	81017	60	0.2
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	104	0.3
All Other Inspectors, Testers and Related Occupations	83000	1	*
Millwrights	85123	24	0.1
Machinery Maintenance Workers	85128	16	*
Maintenance Repairers, General Utility	85132	537	1.4
Automotive Mechanics	85302	16	*
Bus and Truck Mechanics and Diesel Engine Specialists	85311	55	0.1
Mobile Heavy Equipment Mechanics, Except Engines	85314	192	0.5
Telephone and Cable TV Line Installers and Repairers	85702	141	0.4
Electrical Powerline Installers and Repairers	85723	148	0.4
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	78	0.2
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902	395	1.0
All Other Mechanics, Installers, and Repairers	85999	25	0.1
Carpenters	87102	5,963	15.8
Ceiling Tile Installers and Acoustical Carpenters	87105	107	0.3

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Drywall Installers	87108	618	1.6
Tapers	87111	272	0.7
Lathers	87114	48	0.1
Electricians	87202	1,638	4.4
Brick Masons	87302	548	1.5
Stone Masons	87305	42	0.1
Hard Tile Setters	87308	23	0.1
Concrete and Terrazzo Finishers	87311	388	1.0
Reinforcing Metal Workers	87314	20	0.1
Plasterers and Stucco Masons	87317	39	0.1
Painters and Paperhangers	87402	1,204	3.2
Plumbers and Pipefitters	87502	1,345	3.6
Pipelayers	87508	428	1.1
Carpet Installers	87602	24	0.1
Floor Layers	87605	44	0.1
Air Hammer Operators	87702	120	0.3
Paving, Surfacing, and Tamping Equipment Operators	87708	371	1.0
Insulation Workers	87802	367	1.0
Sheet Metal Duct Installers	87805	194	0.5
Roofers	87808	337	0.9
Glaziers	87811	213	0.6
Structural Steel Workers	87814	86	0.2
Fence Erectors	87817	385	1.0
All Other Construction Trades Workers	87899	191	0.5
Earth Drillers, Except Oil and Gas	87902	147	0.4
Blasters and Explosives Workers	87905	132	0.4
Rock Splitters, Quarry	87908	17	*
Sheet Metal Workers	89132	278	0.7
Cabinetmakers and Bench Carpenters	89311	70	0.2
All Other Precision Workers	89999	7	*
Metal Fabricators, Structural Metal Products	91714	163	0.4
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	84	0.2
All Other Machine Operators and Tenders	92998	38	0.1
Welders and Cutters	93914	201	0.5
Truck Drivers, Heavy Or Tractor Trailer	97102	1,580	4.2
Truck Drivers, Light-Include Delivery and Route Workers	97105	114	0.3
All Other Transportation and Related Workers	97899	4	*

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Excavating and Loading Machine Operators	97923	947	2.5
Dragline Operators	97926	13	*
Grader, Dozer, and Scraper Operators	97938	649	1.7
Hoist and Winch Operators	97941	87	0.2
Crane and Tower Operators	97944	40	0.1
Industrial Truck and Tractor Operators	97947	47	0.1
Operating Engineers	97956	343	0.9
All Other Material Moving Equipment Operators	97999	40	0.1
Mechanic and Repairer Helpers	98102	63	0.2
Helpers-Brick and Stone Masons and Hard Tile Setters	98311	368	1.0
Helpers-Carpenters and Related	98312	1,848	4.9
Helpers-Electricians and Powerline Transmission Installers	98313	315	0.8
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons	98314	69	0.2
Helpers-Plumbers, Pipefitters, and Steamfitters	98315	696	1.8
Helpers-Roofers	98316	119	0.3
Helpers-All Other Construction Trades	98319	109	0.3
Helpers-Extractive Workers	98323	257	0.7
Freight, Stock and Material Movers, Hand	98700	79	0.2
All Other Helpers, Laborers and Material Movers, Hand	98999	1,122	3.0

* LESS THAN 0.05 PERCENT

SIC 154 GENERAL BUILDING CONTRACTORS-NONRESIDENTIAL BUILDINGS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	3,242	100.00		
MANAGERIAL AND ADMINISTRATIVE-OCCUPATIONS	446	13.76	-	-
Construction Managers	165	5.09	29.36	73.33
General Managers and Top Executives	214	6.61	33.33	73.33
All Other Managers and Administrators	67	2.07	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	95	2.93	-	-
All Other Financial Specialists	83	0.03	N.A.	N.A.
All Other Management Support Workers	2	0.06	N.A.	N.A.
All Other Engineers	3	0.09	N.A.	N.A.
All Other Engineering and Related Technicians & Technologists	7	0.22	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	222	6.85	-	-
All Other Office Machine Operators	7	0.22	N.A.	N.A.
All Other Material Recording, Scheduling, and Distributing Workers	6	0.19	N.A.	N.A.
All Other Clerical and Administrative Support Workers	209	6.45	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	2,479	76.47	-	-
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	234	7.22	26.99	80.00
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	16	0.49	N.A.	N.A.
All Other Mechanics, Installers, and Repairers	78	2.41	N.A.	N.A.

SIC 154 GENERAL BUILDING CONTRACTORS-NONRESIDENTIAL BUILDINGS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Carpenters	736	22.72	25.56	93.33
All Other Construction Trades Workers	336	10.36	N.A.	N.A.
All Other Precision Workers	37	1.14	N.A.	N.A.
All Other Hand Workers	36	1.11	N.A.	N.A.
All Other Transportation Workers	86	2.65	N.A.	N.A.
All Other Material Moving Equipment Operators	161	4.97	N.A.	N.A.
Helpers-All Other Construction Trades	434	13.39	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	325	10.03	N.A.	N.A.

SIC 16 CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-GENERAL CONTRACTORS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	4,445	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	323	7.27		-
Construction Managers	127	2.85	35.48	36.84
General Managers and Top Executives	127	2.85	33.20	44.73
All Other Managers and Administrators	69	1.55	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	273	6.14	-	-
All Other Financial Specialists	4	0.09	N.A.	N.A.
Cost Estimators	54	1.21	45.66	18.42
All Other Management Support Workers	6	0.13	N.A.	N.A.
All Other Engineers	181	4.07	N.A.	N.A.
All Other Engineering and Related Technicians and Technologists	22	0.49	N.A.	N.A.
All Other Professional, Paraprofessional, and Technical Workers	6	0.13	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	25	0.56	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	271	6.10	-	-
Bookkeeping, Accounting, and Auditing Clerks	85	1.91	27.20	42.10
General Office Clerks	84	1.89	28.35	28.94
All Other Office Machine Operators	3	0.06	N.A.	N.A.
Dispatchers-Except Police, Fire and Ambulance	8	0.18	5.59	10.52
All Other Material Recording, Scheduling and Distributing Workers	24	0.53	N.A.	N.A.
All Other Clerical and Administrative Support Workers	67	1.51	N.A.	N.A.
SERVICE OCCUPATIONS	56	1.25	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	5	0.11	N.A.	N.A.

SIC 16 CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-GENERAL CONTRACTORS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	3,492	78.56	-	-
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	232	5.21	24.51	31.57
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	89	2.00	N.A.	N.A.
Mobile Heavy Equipment Mechanics, Except Engines	105	2.36	34.43	26.31
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	171	3.84	N.A.	N.A.
All Other Mechanics, Installers, and Repairers	139	3.12	N.A.	N.A.
Pipelayers	267	6.00	43.89	21.05
All Other Construction Trades Workers	413	9.29	N.A.	N.A.
All Other Extractive Workers, Except Helpers	132	2.96	N.A.	N.A.
All Other Machine Operators	58	1.30	N.A.	N.A.
Welders and Cutters	14	0.31	48.76	7.89
Truck Drivers, Heavy Or Tractor Trailer	639	14.35	21.28	52.63
All Other Transportation and Related Workers	22	0.49	N.A.	N.A.
Excavating and Loading Machine Operators	342	7.68	36.10	28.94
Grader, Dozer, and Scraper Operators	151	3.39	29.90	26.31
All Other Material Moving Equipment Operators	143	3.21	N.A.	N.A.
Helpers-All Other Construction Trades	173	3.89	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	402	9.04	N.A.	N.A.

SIC 17 CONSTRUCTION-SPECIAL TRADE CONTRACTORS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	19,667	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,683	8.56	-	-
Financial Managers	390	1.98	22.61	22.77
Construction Managers	659	3.35	17.27	32.82
General Managers and Top Executives	612	3.11	13.66	33.59
All Other Managers and Administrators	22	0.11	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	549	2.79	-	-
Cost Estimators	385	1.96	25.62	18.92
All Other Management Support Workers	69	0.35	N.A.	N.A.
All Other Professional, Paraprofessional and Technical Workers	95	0.48	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	247	1.25	-	-
Sales Representatives, Except Scientific and Related Products Or Services and Retail	191	0.97	33.67	8.88
All Other Sales and Related Workers	56	0.28	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,966	10.00	-	-
Secretaries	585	2.97	12.40	32.43
Bookkeeping, Accounting, and Auditing Clerks	581	2.95	13.44	32.82
Payroll and Timekeeping Clerks	110	0.56	32.66	7.34
General Office Clerks	491	2.50	19.21	26.25
All Other Material Recording Scheduling and Distributing Workers	192	0.98	N.A.	N.A.
All Other Clerical and Administrative Support Workers	7	0.35	N.A.	N.A.
SERVICE OCCUPATIONS	6	0.03	N.A.	N.A.

SIC 17 CONSTRUCTION- SPECIAL TRADE CONTRACTORS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	15,216	77.37	-	-
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers	623	3.17	18.23	22.39
All Other First Line Supervisors and Manager/Supervisors-Production, Maintenance and Related	12	0.06	N.A.	N.A.
All Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers	196	1.00	N.A.	N.A.
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	395	2.01	27.56	6.95
All Other Mechanics, Installers, and Repairers	340	1.73	N.A.	N.A.
Drywall Installers	618	3.14	34.95	6.18
Tapers	205	1.04	32.98	5.79
Electricians	1,577	8.02	11.85	8.49
Brick Masons	427	2.17	30.92	6.95
Painters and Paperhangers	1,052	5.35	17.11	18.92
Plumbers and Pipefitters	1,254	6.38	16.32	11.20
Sheet Metal Duct Installers	194	0.99	33.47	1.93
All Other Construction Trades Workers	3,276	16.66	N.A.	N.A.
All Other Extractive Workers, Except Helpers	147	0.75	N.A.	N.A.
All Other Precision Metal Workers	278	1.41	N.A.	N.A.
All Other Precision Workers	40	0.20	N.A.	N.A.
All Other Machine Operators and Tenders	163	0.83	N.A.	N.A.
All Other Hand Workers	143	0.73	N.A.	N.A.
Truck Drivers, Heavy Or Tractor Trailer	588	2.99	23.24	9.65

OCCUPATIONAL EMPLOYMENT
FINANCE, INSURANCE AND REAL ESTATE

(SIC 60-67)

The finance, insurance and real estate division is the smallest of the divisions surveyed with 31,093 workers or 21.2 percent of the total industry employment. This represents an increase of 8,463 workers (37.4 percent) from a similar survey conducted three years earlier.

The finance industry includes banks, credit agencies, security and commodity brokers and holding and other investment companies (SIC 60-62, 67). Insurance includes insurance carriers, agents and brokers (SIC 63, 64). Real estate owners, lessors, lessees, buyers, sellers, agents and developers are included in real estate (SIC 65). Those firms which do not specialize in any one of these fields, but are regularly engaged in some combination of real estate, insurance, loans, or the practice of law are classified in (SIC 66).

More than half of the workers in this division are employed in the clerical and administrative support occupational group. In this group, tellers are the predominant occupation with 2,728 workers (8.8 percent). This was followed by general office clerks and bookkeeping, accounting and auditing clerks with 2,576 and 1,565 workers respectively.

THE FIFTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN FINANCE, INSURANCE AND REAL ESTATE

RANK	CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	53102	Tellers	2,728	8.8
2	55347	General Office Clerks	2,576	8.3
3	55338	Bookkeeping, Accounting and Auditing Clerks	1,565	5.0
4	51002	First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	1,532	4.9
5	19005	General Managers and Top Executives	1,378	4.4
6	53314	Insurance Processing Clerks	1,226	3.9
7	13002	Financial Managers	1,082	3.5
8	53121	Loan and Credit Clerks	916	2.9
9	21108	Loan Officers and Counselors	908	2.9
10	43002	Sales Agents and Placers-Insurance	749	2.4
11	55305	Receptionists and Information Clerks	743	2.4
12	53105	New Accounts Clerks	720	2.3
13	15011	Property and Real Estate Managers and Administrators	612	2.0
14	21102	Underwriters	591	1.9
15	85132	Maintenance Repairers, General Utility	538	1.7

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		31,093	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	4,025	12.9
Financial Managers	13002	1,082	3.5
Personnel, Training, and Labor Relations Managers	13005	126	0.4
Purchasing Managers	13008	36	0.1
Marketing, Advertising, and Public Relations Managers	13011	115	0.4
Administrative Services Managers	13014	166	0.5
Property and Real Estate Managers and Administrators	15011	612	2.0
General Managers and Top Executives	19005	1,378	4.4
All Other Managers and Administrators	19999	510	1.6
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	3,794	12.2
Underwriters	21102	591	1.9
Credit Analysts	21105	220	0.7
Loan Officers and Counselors	21108	908	2.9
Tax Preparers	21111	13	*
Accountants and Auditors	21114	306	1.0
Budget Analysts	21117	23	0.1
All Other Financial Specialists	21199	129	0.4
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	16	0.1
Special Agents, Insurance	21505	37	0.1
Personnel, Training, and Labor Relations Specialists	21511	128	0.4
Claims Examiners, Property and Casualty Insurance	21921	84	0.3
All Other Management Support Workers	21999	106	0.4
Safety Engineers, Except Mining	22132	30	0.1
All Other Engineers	22199	3	*
All Other Engineering and Related Technicians and Technologists	22599	48	0.2
Systems Analysts, Electronic Data Processing	25102	296	0.1
Computer Programmers	25105	323	1.0
Computer Programmer Aides	25108	41	0.1
Operations and Systems Researchers and Analysts, Except Computer	25302	78	0.3
Actuaries	25313	47	0.2

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Financial Analysts	25315	31	0.1
Lawyers	28108	32	0.1
Title Examiners and Abstractors	28311	66	0.2
All Other Legal Assistants and Technicians, Except Clerical	28399	15	*
All Other Health Professionals, Paraprofessionals and Technicians	32999	80	0.3
Public Relations Specialists and Publicity Writers	34008	56	0.2
All Other Professional, Paraprofessional and Technical Workers	39999	87	0.3
SALES OCCUPATIONS	40000-49999	2,352	7.6
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	41002	377	1.2
Sales Agents and Placers-Insurance	43002	749	2.4
Brokers, Real Estate	43005	177	0.6
Sales Agents, Real Estate	43008	439	1.4
Appraisers, Real Estate	43011	137	0.4
Sales Agents, Securities, Commodities and Financial Services	43014	337	1.1
Sales Agents, Selected Business Services	43017	22	0.1
All Other Sales Representatives and Sales Persons, Service	43099	61	0.2
Cashiers	49023	51	0.2
All Other Sales and Related Workers	49999	2	*
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	18,355	59.0
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	51002	1,532	4.9
Tellers	53102	2,728	8.8
New Accounts Clerks	53105	720	2.3
Transit Clerks	53108	126	0.4
Loan Interviewers	53111	158	0.5
Credit Authorizers	53114	14	*
Credit Checkers	53117	79	0.3
Loan and Credit Clerks	53121	916	2.9
Adjustment Clerks	53123	140	0.5
Statement Clerks	53126	286	0.9
Brokerage Clerks	53128	131	0.4

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Insurance Adjusters, Examiners, and Investigators	53302	472	1.5
Insurance Appraisers, Auto Damage	53305	19	0.1
Insurance Claims Clerks	53311	383	1.2
Insurance Policy Processing Clerks	53314	1,226	3.9
Bill and Account Collectors	53508	286	0.9
Proofreaders and Copy Markers	53911	24	0.1
Real Estate Clerks	53914	85	0.3
Secretaries	55100	482	1.6
All Other Secretaries	55199	779	2.5
Stenographers	55302	13	*
Receptionists and Information Clerks	55305	743	2.4
Typists	55308	255	0.8
Typists, Word Processing	55311	187	0.6
Personnel Clerks, Except Payroll and Timekeeping	55314	60	0.2
Correspondence Clerks	55317	59	0.2
File Clerks	55321	505	1.6
Statistical Clerks	55328	102	0.3
Bookkeeping, Accounting and Auditing Clerks	55338	1,565	5.0
Payroll and Timekeeping Clerks	55341	44	0.1
Billing, Cost and Rate Clerks	55344	138	0.4
General Office Clerks	55347	2,576	8.3
Billing, Posting, and Calculating Machine Operators	56002	17	0.1
Duplicating Machine Operators	56005	16	0.1
Mail Machine Operators, Preparation and Handling	56008	56	0.2
Computer Operators, Except Peripheral Equipment	56011	201	0.6
Peripheral EDP Equipment Operators	56014	25	0.1
Data Entry Keyers, Except Composing	56017	436	1.4
All Other Office Machine Operators	56099	35	0.1
Switchboard Operators	57102	138	0.4
Telegraph Operators	57111	10	*
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	146	0.5
Messengers	57311	90	0.3
Stock Clerks-Stock Room, Warehouse Or Storage Yard	58023	29	0.1
All Other Material Recording, Scheduling, and Distributing Workers	58099	19	0.1
All Other Clerical and Administrative Support Workers	59999	304	1.0

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
SERVICE OCCUPATIONS	60000-69999	1,216	3.9
First Line Supervisors and Manager/ Supervisors-Service	61000	23	0.1
Guards and Watch Guards	63047	62	0.2
Food and Beverage Preparation and Service Occupations	65000	47	0.2
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	308	1.0
All Other Cleaning and Building Service Workers, Except Private Households	67099	266	0.9
All Other Service Workers	69999	33	0.1
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	387	1.3
Gardeners and Groundskeepers Except Farm	79014	372	1.2
All Other Agricultural, Forestry and Related	79999	15	0.1
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	964	3.1
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	32	0.1
Maintenance Repairers, General Utility	85132	538	1.7
All Other Mechanics, Installers, and Repairers	85999	12	*
Carpenters	87102	183	0.6
Painters and Paperhangers	87402	114	0.4
All Other Construction and Extractive Workers, Except Helpers	87999	3	*
All Other Precision Workers	89999	6	*
All Other Machine Setters and Set-Up Operators	92997	5	*
All Other Transportation and Material Moving Equipment Operators	97989	26	0.1
All Other Helpers, Laborers, and Material Movers, Hand	98999	45	0.1

* LESS THAN 0.05 PERCENT

SIC 60 BANKING
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	8,959	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,009	11.26	-	-
Financial Managers	469	5.24	9.10	56.34
Personnel, Training, and Labor Relations Managers	59	0.66	16.79	30.99
Purchasing Managers	22	0.25	15.35	15.49
Marketing, Advertising, and Public Relations Managers	32	0.36	13.04	18.31
Administrative Services Managers	20	0.22	28.02	9.86
Property and Real Estate Managers and Administrators	13	0.15	45.12	4.23
General Managers and Top Executives	324	3.62	9.90	40.85
All Other Managers and Administrators	70	0.78	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,031	11.51	-	-
Credit Analysts	81	0.90	26.93	16.90
Loan Officers and Counselors	602	6.72	11.14	52.11
Accountants and Auditors	79	0.88	22.15	21.13
Budget Analysts	11	0.12	26.19	8.45
All Other Financial Specialists	92	1.03	N.A.	N.A.
Purchasing Agents-Except Wholesale, Retail, and Farm Products	3	0.03	25.82	4.23
Personnel, Training and Labor Relations Specialists	48	0.54	27.96	16.90
All Other Management Support Workers	8	0.09	N.A.	N.A.
Systems Analysts, Electronic Data Processing	36	0.40	27.07	14.08
Computer Programmer Aides	19	0.21	35.35	5.63
Operations and Systems Researchers and Analysts, Except Computer	3	0.03	45.95	4.23
Financial Analysts	20	0.22	31.54	7.04
All Other Mathematical Scientists	13	0.15	N.A.	N.A.
All Other Social Scientists	1	0.01	N.A.	N.A.
Public Relations Specialists	12	0.13	39.53	5.63
All Other Professional, Para-professional and Technical Workers	3	0.03	N.A.	N.A.

SIC 60 BANKING
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
SALES AND RELATED OCCUPATIONS	88	0.98	-	-
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	13	0.15	45.96	4.23
Sales Agents, Securities, Commodities, and Financial Services	44	0.49	28.93	9.86
All Other Sales Representatives and Salespersons, Service	17	0.19	N.A.	N.A.
All Other Sales and Related Workers	14	0.16	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	6,593	73.59	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	605	6.76	9.48	53.52
Tellers	2,275	25.41	8.36	61.97
New Accounts Clerks	611	6.83	18.14	54.93
Transit Clerks	119	1.33	24.11	22.54
Loan Interviewers	100	1.12	19.67	25.35
Credit Authorizers	14	0.16	49.49	4.23
Credit Checkers	55	0.61	25.84	15.49
Loan and Credit Clerks	583	6.51	13.20	45.07
Adjustment Clerks	85	0.95	19.81	12.68
Statement Clerks	232	2.59	24.69	23.94
Brokerage Clerks	28	0.31	33.98	11.27
Bill and Account Collectors	103	1.15	15.96	25.35
Secretaries	287	3.21	11.22	45.07
Receptionists and Information Clerks	111	1.24	16.26	30.99
Typists, Word Processor	24	0.27	22.48	11.27
Personnel Clerks	12	0.13	18.63	8.45
File Clerks	68	0.76	19.44	15.49
Bookkeeping, Accounting and Auditing Clerks	381	4.26	15.39	45.07
Payroll and Timekeeping Clerks	21	0.23	24.28	15.49
General Office Clerks	298	3.33	21.57	29.58
Billing, Posting, and Calculating Machine Operators	16	0.18	38.53	4.23
Mail Machine Operators, Preparation and Handling	13	0.15	34.83	7.04
Computer Operators	91	1.02	42.14	15.49

SIC 60 BANKING
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Data Entry Keyers	70	0.78	26.05	16.90
All Other Office Machine Operators	13	0.15	N.A.	N.A.
Switchboard Operators	64	0.71	12.88	35.21
Telegraph Operators	10	0.11	34.64	4.23
Mail Clerks, Except Mail Machine Operators	32	0.36	24.63	14.08
Messengers	41	0.46	24.24	16.90
Stock Clerks, Stockroom, Warehouse Or Storage Yard	12	0.13	38.19	7.04
All Other Material Recording, Scheduling, and Distributing Workers	2	0.02	N.A.	N.A.
All Other Clerical and Administrative Support Workers	217	2.42	N.A.	N.A.
SERVICE OCCUPATIONS	205	2.29	-	-
Guards and Watch Guards	13	0.15	33.53	7.04
Food and Beverage Preparation and Service Occupations	10	0.11	32.71	4.23
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	163	1.82	20.35	30.99
All Other Service Workers	19	0.21	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	9	0.10	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	24	0.27	-	-
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	6	0.07	N.A.	N.A.
Maintenance Repairers, General Utility	12	0.13	26.87	5.63
All Other Transportation and Material Moving Equipment Operators	6	0.07	N.A.	N.A.

SIC 61 CREDIT AGENCIES OTHER THAN BANKS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	3,122	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	476	15.25	-	-
Financial Managers	244	7.78	15.00	88.10
Personnel, Training, and Labor Relations Managers	14	0.45	17.35	16.67
Purchasing Managers	4	0.13	29.58	7.14
Administrative Services Managers	12	0.38	11.18	7.14
General Managers and Top Executives	156	4.98	22.30	50.00
All Other Managers and Administrators	46	1.47	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	598	19.15	-	-
Underwriters	32	1.02	31.14	9.52
Loan Officers and Counselors	290	9.25	19.90	59.52
Accountants and Auditors	52	1.66	33.25	21.43
All Other Financial Specialists	153	4.90	N.A.	N.A.
Personnel, Training and Labor Relations Specialists	8	0.26	20.54	7.14
All Other Management Support Workers	13	0.42	N.A.	N.A.
All Other Mathematical Scientists	29	0.93	N.A.	N.A.
All Other Legal Assistants and Technicians Except Clerks	3	0.10	N.A.	N.A.
All Other Professional, Para-professional and Technical Workers	18	0.58	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	102	3.27	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,878	60.15	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	179	5.71	12.63	59.52
Tellers	450	14.35	7.46	59.52
New Accounts Clerks	109	3.48	10.91	40.48
Transit Clerks	7	0.22	19.69	9.52
Loan and Credit Clerks	313	9.98	26.44	42.86
Statement Clerks	54	1.72	20.46	19.05
Bill and Account Collectors	60	1.91	23.78	21.43

SIC 61 CREDIT AGENCIES OTHER THAN BANKS
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Secretaries	73	2.33	12.00	35.71
Receptionists and Information Clerks	63	2.01	19.97	33.33
Personnel Clerks	7	0.22	24.74	9.52
File Clerks	17	0.54	27.08	9.52
Bookkeeping, Accounting and Auditing Clerks	127	4.05	17.03	33.33
Payroll and Timekeeping Clerks	5	0.16	14.04	7.14
General Office Clerks	211	6.73	23.97	30.95
Computer Operators	22	0.70	33.77	19.05
All Other Office Machine Operators	17	0.54	N.A.	N.A.
Switchboard Operators	35	1.12	20.00	16.67
Messengers	11	0.35	21.70	11.90
All Other Material Recording, Scheduling, and Distributing Workers	1	0.03	N.A.	N.A.
All Other Clerical and Administrative Support Workers	117	3.75	N.A.	N.A.
SERVICE OCCUPATIONS	50	1.60	-	-
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	42	1.34	17.02	28.57
All Other Service Workers	8	0.26	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	18	0.58	N.A.	N.A.

SIC 631 LIFE INSURANCE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	1,624	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	139	8.56	-	-
Financial Managers	21	1.30	10.10	30.77
General Managers and Top Executives	91	5.62	16.66	61.54
All Other Managers and Administrators	27	1.66	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	192	11.82	-	-
Underwriters	16	0.99	11.35	23.08
All Other Financial Specialists	18	1.11	N.A.	N.A.
All Other Management Support Workers	18	1.11	N.A.	N.A.
Computer Programmers	91	5.62	11.73	38.46
All Other Mathematical Scientists	34	2.09	N.A.	N.A.
All Other Legal Assistants and Technicians, Except Clerical	3	0.18	N.A.	N.A.
All Other Professional, Paraprofessional, and Technical Workers	12	0.74	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	468	28.82	-	-
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	54	3.33	19.89	69.23
Sales Agents and Placers, Insurance	409	25.25	19.65	76.92
All Other Sales Representatives and Salespersons, Service	5	0.31	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	811	49.94	-	-
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	96	5.93	12.69	76.92
Insurance Claims Clerks	23	1.42	22.47	30.77

SIC 631 LIFE INSURANCE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Insurance Policy Processing Clerks	150	9.26	11.02	53.85
All Other Secretaries	46	2.84	N.A.	N.A.
Receptionists and Information Clerks	28	1.73	16.64	46.15
Typists, Word Processor	25	1.54	28.40	38.46
File Clerks	52	3.21	16.65	38.46
Bookkeeping, Accounting, and Auditing Clerks	61	3.77	14.13	38.46
General Office Clerks	224	13.83	7.10	46.15
All Other Office Machine Operators	15	0.92	N.A.	N.A.
All Other Material Recording, Scheduling and Distributing Workers	2	0.12	N.A.	N.A.
All Other Clerical and Administrative Support Workers	89	5.48	N.A.	N.A.
SERVICE OCCUPATIONS	6	0.37	-	-
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	6	0.37	45.64	23.08
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	8	0.49	N.A.	N.A.

SIC 64 INSURANCE AGENTS, BROKERS AND SERVICE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENT REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	3,069	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	354	11.53	-	-
Financial Managers	107	3.48	33.30	33.33
Marketing, Advertising, and Public Relations Managers	7	0.23	41.40	9.09
General Managers and Top Executives	231	7.52	17.31	51.15
All Other Managers and Administrators	9	0.29	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	315	10.23	-	-
Underwriters	197	6.41	45.02	21.21
All Other Financial Specialists	18	0.59	N.A.	N.A.
All Other Management Support Workers	54	1.76	N.A.	N.A.
All Other Engineers	2	0.07	N.A.	N.A.
All Other Professional, Paraprofessional, and Technical Workers	44	1.43	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	413	13.46	-	-
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	127	4.13	31.41	30.30
Sales Agents and Placers, Insurance	269	8.75	37.59	30.30
All Other Sales Representatives and Salespersons, Service	17	0.55	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,966	64.06	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	272	8.85	23.62	42.42
Insurance Claims Clerks	134	4.36	28.82	27.27
Insurance Policy Processing Clerks	638	20.76	21.41	54.54
All Other Secretaries	56	1.82	N.A.	N.A.
Receptionists and Information Clerks	190	6.18	29.20	45.45
File Clerks	93	3.03	37.90	24.24
Bookkeeping, Accounting, and Auditing Clerks	99	3.22	29.44	30.30

SIC 64 INSURANCE AGENTS, BROKERS AND SERVICE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENT REPORTING OCCUPATION IN PERCENT
General Office Clerks	220	7.16	38.95	21.21
All Other Office Machine Operators	9	0.29	N.A.	N.A.
All Other Material Recording, Scheduling, and Distributing Workers	8	0.26	N.A.	N.A.
All Other Clerical and Administrative Workers	247	8.05	N.A.	N.A.
SERVICE OCCUPATIONS	21	0.68	N.A.	N.A.

SIC 65 REAL ESTATE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	6,181	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,353	21.89	-	-
Financial Managers	171	2.77	22.15	33.02
Property and Real Estate Managers and Administrators	576	9.32	19.59	43.40
General Managers and Top Executives	423	6.84	23.32	41.51
All Other Managers and Administrators	183	2.96	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	293	4.74	-	-
Accountants and Auditors	23	0.37	47.25	4.72
All Other Financial Specialists	28	0.45	N.A.	N.A.
All Other Management Support Workers	20	0.32	N.A.	N.A.
All Other Engineers	10	0.16	N.A.	N.A.
All Other Engineering Technicians and Technologists	48	0.78	N.A.	N.A.
Lawyers	9	0.15	40.82	2.83
Title Examiners and Abstractors	63	1.02	8.09	7.55
All Other Legal Assistants and Technicians, Except Clerical	5	0.08	N.A.	N.A.
All Other Health Professionals, Para-professionals and Technicians	67	1.08	N.A.	N.A.
All Other Professional, Para-professional, and Technical Workers	20	0.32	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	806	13.04	-	-
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	108	1.75	31.72	14.15
Brokers, Real Estate	165	2.67	29.17	14.15
Sales Agents, Real Estate	401	6.49	29.51	20.75
Appraisers, Real Estate	131	2.12	35.98	8.49
All Other Sales Representatives and Salespersons, Service	1	0.02	N.A.	N.A.

SIC 65 REAL ESTATE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,670	27.02	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	14	0.23	43.74	4.72
Real Estate Clerks	83	1.34	30.90	13.21
All Other Secretaries	461	7.46	N.A.	N.A.
Receptionists and Information Clerks	268	4.33	31.33	30.19
Bookkeeping, Accounting and Auditing Clerks	360	5.82	17.12	49.06
General Office Clerks	323	5.22	31.56	26.42
All Other Office Machine Operators	10	0.16	N.A.	N.A.
Messengers	5	0.08	6.32	2.83
All Other Clerical and Administrative Support Workers	146	2.36	N.A.	N.A.
SERVICE OCCUPATIONS	794	12.85	-	-
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	477	7.71	31.19	20.75
All Other Cleaners and Building Service Workers	265	4.29	N.A.	N.A.
All Other Service Workers	52	0.84	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	376	6.08	-	-
Gardeners and Groundskeepers, Except Farm	361	5.84	41.52	18.87
All Other Agricultural, Forestry, Fishing, and Related Workers	15	0.24	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	889	14.38	-	-
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	25	0.36	N.A.	N.A.

SIC 65 REAL ESTATE
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Maintenance Repairers, General Utility	510	8.25	33.09	31.13
All Other Mechanics, Installers and Repairers	7	0.11	N.A.	N.A.
All Other Construction and Extractive Workers, Except Helpers	300	4.85	N.A.	N.A.
All Other Transportation and Material Moving Equipment Operators	18	0.29	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	29	0.47	N.A.	N.A.

OCCUPATIONAL EMPLOYMENT
SERVICES

(SIC 70-89)
INDUSTRIES 806 and 82 EXCLUDED

The services industry in New Hampshire employed an estimated 78,248 workers during the second quarter of 1987. This represents an increase of 19,025 workers (32.1 percent) from a similar survey conducted in 1984. More than one out of every two New Hampshire workers (53.2 percent) in the selected nonmanufacturing industries are employed in the service industries.

Establishments in the services division provide personal, business, and professional services. Personal services include motels, laundries and barber shops while business services include advertising agencies, credit reporting agencies, management consulting agencies, repair firms and detective agencies (SIC 70-79). Professional services include medical and other health services, legal services, museums, art galleries and botanical and zoological gardens. Also included are nonprofit membership organizations, engineering and architectural services, and consulting, accounting, auditing and bookkeeping services (SIC 80-89).

Within the service division the dominant occupation was general managers and top executives with 2,998 workers (3.8 percent). Janitors and cleaners, except maids and housekeeping cleaners accounted for 2,499 workers (3.2 percent). Registered nurses combined with nursing aides, orderlies and attendants accounted for 4,654 workers or (5.9 percent) of the total division employment.

THE SEVENTEEN OCCUPATIONS EMPLOYING THE
LARGEST NUMBER OF WORKERS IN SERVICES

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	19005	General Managers and Top Executives	2,998	3.8
2	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	2,499	3.2
3	66008	Nursing Aides, Orderlies and Attendants	2,464	3.1
4	55100	Secretaries	2,384	3.0
5	32502	Registered Nurses	2,190	2.8
6	55338	Bookkeeping, Accounting, and Auditing Clerks	2,145	2.7
7	55347	General Office Clerks	1,914	2.4
8	55305	Receptionists and Information Clerks	1,887	2.4
9	65008	Waiters and Waitresses	1,568	2.0
10	68005	Hairdressers, Hairstylists, and Cosmetologists	1,491	1.9
11	67002	Maids and Housekeeping Cleaners	1,447	1.8
12	63047	Guards and Watch Guards	1,345	1.7
13	55102	Legal Secretaries	1,249	1.6
14	13002	Financial Managers	1,206	1.5
15	28108	Lawyers	1,129	1.4
16	65005	Bartenders	1,116	1.4
17	32102	Physicians and Surgeons	1,115	1.4

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		78,248	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	6,939	8.9
Financial Managers	13002	1,206	1.5
Personnel, Training, and Labor Relations Managers	13005	183	0.2
Purchasing Managers	13008	67	0.1
Marketing, Advertising, and Public Relations Managers	13011	583	0.7
Administrative Services Managers	13014	341	0.4
Engineering, Mathematical and Natural Sciences Managers	13017	192	0.2
Education Administrators	15005	161	0.2
Medicine & Health Services Managers	15008	280	0.4
Food and Lodging Managers	15026	495	0.6
General Managers and Top Executives	19005	2,998	3.8
All Other Managers and Administrators	19999	433	0.6
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	19,853	25.4
Tax Preparers	21111	115	0.1
Accountants and Auditors	21114	942	1.2
Budget Analysts	21117	18	*
All Other Financial Specialists	21199	36	0.1
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	47	0.1
Employment Interviewers, Private Or Public Employment Service	21508	241	0.3
Personnel, Training, and Labor Relations Specialists	21511	174	0.2
Cost Estimators	21902	13	*
Management Analysts	21905	215	0.3
All Other Management Support Workers	21999	142	0.2
Chemical Engineers	22114	62	0.1
Nuclear Engineers	22117	32	*
Civil Engineers, Including Traffic	22121	303	0.4
Electrical and Electronic Engineers	22126	332	0.4
Industrial Engineers, Except Safety	22128	11	*
Mechanical Engineers	22135	166	0.2
All Other Engineers	22199	43	0.1
Architects, Except Landscape and Marine	22302	281	0.4

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Landscape Architects	22308	101	0.1
Surveying and Mapping Scientists	22311	282	0.4
Civil Engineering Technicians and Technologists	22502	155	0.2
Electrical and Electronic Engineering Technicians and Technologists	22505	134	0.2
Mechanical Engineering Technicians and Technologists	22511	42	0.1
Drafters	22514	643	0.8
Surveying and Mapping Technicians and Technologists	22521	307	0.4
All Other Engineering and Related Technicians and Technologists	22599	20	*
Geologists, Geophysicists and Oceanographers	24111	88	0.1
All Other Physical Scientists	24199	14	*
Biological Scientists	24308	44	0.1
Medical Scientists	24311	21	*
All Other Physical and Life Science Technicians and Technologists	24599	62	0.1
Systems Analysts, Electronic Data Processing	25102	203	0.3
Computer Programmers	25105	352	0.4
Computer Programmer Aides	25108	102	0.1
Operations and Systems Researchers	25302	58	0.1
Statisticians	25312	47	0.1
All Other Mathematical Scientists	25319	22	*
Psychologists	27108	101	0.1
Social Workers, Medical and Psychiatric	27302	589	0.8
Social Workers, Except Medical and Psychiatric	27305	418	0.5
Social Service Technicians	27308	451	0.6
Recreational Workers	27311	449	0.6
Clergy	27502	19	*
Lawyers	28108	1,129	1.4
Law Clerks	28302	118	0.1
Paralegal Personnel	28305	449	0.6
Legal Assistants	28300	12	*
Title Examiners-Abstractors	28311	19	*
Lecturers	31111	129	0.2
Nursing Instructors	31114	10	*
Teachers, Preschool and Kindergarten	31302	781	1.0
Teachers and Instructors, Vocational Education and Training	31314	106	0.1

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Instructors, Nonvocational Education	31317	383	0.5
Instructors and Coaches, Sports and Physical Training	31321	516	0.7
All Other Teachers and Instructors	31399	212	0.3
Librarians, Professional	31502	20	*
Curators, Archivists, Museum Technicians and Restorers	31511	14	*
Vocational and Educational Counselors	31514	55	0.1
Instructional Coordinators	31517	76	0.1
Physicians and Surgeons	32102	1,115	1.4
Dentists	32105	173	0.2
Optometrists	32108	12	*
Podiatrists	32111	54	0.1
All Other Health Diagnosing and Treating Practitioners	32199	7	*
Respiratory Therapists	32302	68	0.1
Occupational Therapists	32305	102	0.1
Physical Therapists	32308	205	0.3
Speech Pathologists and Audiologists	32314	48	0.1
Recreational Therapists	32317	48	0.1
All Other Therapists	32399	1	*
Registered Nurses	32502	2,190	2.8
Licensed Practical Nurses	32505	982	1.3
Physicians Assistants	32511	145	0.2
Opticians, Dispensing and Measuring	32514	212	0.3
Dietitians and Nutritionists	32521	66	0.1
Dietetic Technicians	32523	50	0.1
Medical and Clinical Laboratory Technologists	32902	205	0.3
Medical and Clinical Laboratory Technicians	32905	106	0.1
Dental Hygienists	32908	571	0.7
Medical Records Technicians and Technologists	32911	60	0.1
Radiologic Technicians	32921	179	0.2
All Other Health Professionals, Paraprofessionals and Technicians	32999	111	0.1
Writers and Editors	34002	70	0.1
Public Relations Specialists and Publicity Writers	34008	143	0.2
Photographers	34023	173	0.2
Artists and Related Workers	34035	191	0.2
Designers, Except Interior Designers	34038	166	0.2
Interior Designers	34041	16	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Dancers and Choreographers	34053	20	*
Producers, Directors, Actors, and Other Entertainers	34056	65	0.1
Funeral Directors and Morticians	39011	94	0.1
Embalmers	39014	18	*
All Other Professional, Paraprofessional and Technical Workers	39999	261	0.3
SALES OCCUPATIONS	40000-49999	3,291	4.2
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	41002	433	0.6
Sales Agents, Selected Business Services	43017	210	0.3
Travel Agents	43021	39	0.1
Sales Agents, Advertising	43023	10	*
All Other Sales Representatives and Salespersons, Service	43099	103	0.1
Sales Engineers	49002	58	0.1
Sales Representatives, Scientific and Related Products and Services, Except Retail	49005	110	0.1
Sales Representatives, Except Scientific and Related Products Or Services and Retail	49008	168	0.2
Salespersons, Retail	49011	49	0.1
Salespersons, Parts	49014	42	0.1
Counter and Rental Clerks	49017	1,056	1.3
Cashiers	49023	806	1.0
News and Street Vendors, Telephone Solicitors	49026	45	0.1
Demonstrators, Promoters and Models	49032	32	*
All Other Sales and Related Workers	49999	130	0.1
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	17,712	22.6
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	51002	922	1.2
Credit Checkers	53117	44	0.1
Adjustment Clerks	53123	25	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Insurance Claims Clerks	53311	48	0.1
Welfare Eligibility Workers and Interviewers	53502	83	0.1
Bill and Account Collectors	53508	145	0.2
Travel Clerks	53802	19	*
Reservation and Ticket Agents	53805	18	*
Hotel Desk Clerks	53808	482	0.6
Teacher Aides and Educational Assistants, Clerical	53905	585	0.7
Secretaries	55100	2,384	3.0
Legal Secretaries	55102	1,249	1.6
Medical Secretaries	55105	795	1.0
All Other Secretaries	55199	470	0.6
Stenographers	55302	54	0.1
Receptionists and Information Clerks	55305	1,887	2.4
Typists	55308	355	0.5
Typists, Word Processor	55311	565	0.7
Personnel Clerks	55314	38	*
Correspondence Clerks	55317	47	0.1
File Clerks	55321	485	0.6
Order Clerks	55323	70	0.1
Statistical Clerks	55328	10	*
Interviewing Clerks, Except Personnel and Social Welfare	55332	37	*
Bookkeeping, Accounting and Auditing Clerks	55338	2,145	2.7
Payroll and Timekeeping Clerks	55341	144	0.2
Billing, Cost and Rate Clerks	55344	270	0.3
General Office Clerks	55347	1,914	2.4
Billing, Posting, and Calculating Machine Operators	56002	84	0.1
Duplicating Machine Operators	56005	51	0.1
Mail Machine Operators, Preparation and Handling	56008	43	0.1
Computer Operators	56011	278	0.4
Peripheral EDP Equipment Operators	56014	19	*
Data Entry Keyers, Except Composing	56017	508	0.6
Data Entry, Composing	56021	86	0.1
Switchboard Operators	57102	384	0.5
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	157	0.2
Messengers	57311	177	0.2
Dispatchers, Except Police, Fire and Ambulance	58005	29	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	139	0.2
Traffic, Shipping, and Receiving Clerks	58028	67	0.1
All Other Material Recording, Scheduling, and Distributing Workers	58099	39	0.1
All Other Clerical and Administrative Support Workers	59999	361	0.5
SERVICE OCCUPATIONS	60000-69999	20,396	26.1
First Line Supervisors and Manager/ Supervisors-Service	61000	41	0.1
Housekeepers	61008	692	0.9
All Other Supervisors and Manager/ Supervisors	61099	167	0.2
Detectives and Investigators, Except Public	63035	183	0.2
Guards and Watch Guards	63047	1,345	1.7
All Other Protective Service Workers	63099	35	0.1
Food and Beverage Preparation and Service Occupations	65000	87	0.1
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop	65002	109	0.1
Bartenders	65005	1,116	1.4
Waiters and Waitresses	65008	1,568	2.0
Food Service, Outside	65011	61	0.1
Dining Room and Cafeteria Attendants and Bartender Helpers	65014	319	0.4
Counter Attendants-Lunchroom, Coffee Shop Or Cafeteria	65017	111	0.1
Bakers, Bread and Pastry	65021	21	*
Cooks, Restaurant	65026	442	0.6
Cooks, Institution Or Cafeteria	65028	352	0.4
Cooks, Specialty-Fast Food	65032	22	*
Cooks, Short Order	65035	45	0.1
Food Preparation Workers	65038	1,106	1.4
Combined Food Preparation and Service Workers	65041	38	0.1
All Other Food Service Workers	65099	54	0.1
Dental Assistants	66002	681	0.9
Medical Assistants	66005	213	0.3
Nursing Aides, Orderlies and Attendants	66008	2,464	3.1

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Home Health Aides	66011	1,005	1.3
Psychiatric Aides	66014	51	0.1
Physical and Corrective Therapy Assistants and Aides	66017	38	0.1
Occupational Therapy Assistants and Aides	66021	24	*
All Other Health Service Workers	66099	246	0.3
Maids and Housekeeping Cleaners	67002	1,447	1.8
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	2,499	3.2
Pest Controllers and Assistants	67008	130	0.2
All Other Cleaning and Building Service Workers	67099	177	0.2
Barbers	68002	43	0.1
Hairdressers, Hairstylists, and Cosmetologists	68005	1,491	1.9
Manicurists	68008	69	0.1
Amusement and Recreation Attendants	68014	306	0.4
Guides	68017	23	*
Ushers, Lobby Attendants, and Ticket Takers	68021	279	0.4
Baggage Porters and Bellhops	68023	64	0.1
Social Welfare Service Aides	68035	344	0.4
Child Care Workers	68038	599	0.8
All Other Service Workers	69999	289	0.4
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	653	0.8
Gardeners and Groundskeepers, Except Farm	79014	565	0.7
Animal Caretakers, Except Farm	79017	87	0.1
All Other Agricultural, Forestry, Fishing, and Related Workers	79999	1	*
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	9,404	12.0
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers	81002	132	0.2
All Other First Line Supervisors and Manager/Supervisors-Production Maintenance and Related Occupations	81099	197	0.3

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Precision Inspectors, Testers, and Graders	83002	78	0.1
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	83005	88	0.1
All Other Inspectors, Testers, and Related Occupations	83099	67	0.1
Machinery Maintenance Mechanics	85110	17	*
Maintenance Repairers, General Utility	85132	937	1.2
Automotive Mechanics	85302	541	0.7
Automotive Body and Related Repairers	85305	487	0.6
Bus and Truck Mechanics, and Diesel Engine Specialists	85311	101	0.1
Mobile Heavy Equipment Mechanics	85314	14	*
Small Engine Specialists	85328	61	0.1
Radio Mechanics	85514	18	*
All Other Communication Equipment Mechanics	85599	7	*
Data Processing Equipment Repairers	85705	85	0.1
Electric Home Appliance and Power Tool Repairers	85711	21	*
Electric Motor, Transformer, and Related Repairers	85714	59	0.1
Electronics Repairers, Commercial and Industrial Equipment	85717	42	0.1
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	10	*
Heating, Air Conditioning, and Refrigeration Mechanics and Installers Electromedical and Biomedical	85902	95	0.1
Equipment Repairers	85908	12	*
Office Machine and Cash Register Servicers	85926	10	*
Coin and Vending Machine Servicers and Repairers	85947	13	*
Tire Repairers and Changers	85953	68	0.1
Menders-Garments, Linens, and Related	85956	28	*
All Other Mechanics, Installers, and Repairers	85999	220	0.3
Carpenters	87102	66	0.1
Electricians	87202	19	*
Painters and Paperhangers	87402	62	0.1
Plumbers, Pipefitters and Steamfitters	87502	16	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Septic Tank Servicers and Sewer Pipe Cleaners	87511	12	*
All Other Construction and Extractive Workers, Except Helpers	87999	301	0.4
Machinists	89108	177	0.2
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	29	*
All Other Precision Metal Workers	89199	3	*
Cabinetmakers	89311	20	*
All Other Precision Wood Workers	89399	4	*
Custom Tailors and Sewers	89505	50	0.1
Upholsterers	89508	43	0.1
Leather Workers, and Repairers	89511	16	*
Spotters, Dry Cleaning	89514	37	0.1
Pressers, Delicate Fabrics	89517	98	0.1
Precision Dental Laboraty Technicians	89921	241	0.3
All Other Precision Workers	89999	73	0.1
Machine Forming Operators and Tenders, Metal and Plastic	91321	68	0.1
Printing Press Machine Operators and Tenders	92543	36	0.1
Bindery Machine Operators	92546	13	*
Sewing Machine Operators, Non-garment	92721	10	*
Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	92726	694	0.9
Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	92728	218	0.3
Motion Picture Projectionists	92905	54	0.1
Photographic Processing Machine Operators and Tenders	92908	41	0.1
Painters, Transportation Equipment	92947	20	*
Packaging and Filling Machine Operators and Tenders	92974	31	*
All Other Machine Setters and Set-Up Operators	92997	29	*
All Other Machine Operators and Tenders	92998	56	0.1
Welders and Cutters	93914	91	0.1
Solderers and Brazers	93917	81	0.1
Pressers, Hand	93921	50	0.1
Painting, Coating, and Decorating Workers, Hand	93947	11	*
All Other Hand Workers	93999	783	1.0

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1987 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Plant and System Occupations	95000	3	*
Truck Drivers Light-Including Delivery and Route Workers	97105	330	0.4
Bus Drivers	97108	284	0.4
Bus Drivers, School	97111	26	*
Driver/Sales Workers	97117	145	0.2
All Other Motor Vehicle Operators	97199	152	0.2
Air Pilots and Flight Engineers	97702	51	0.1
Service Station Attendants	97805	172	0.2
Parking Lot Attendants	97808	93	0.1
All Other Transportation and Related Workers	97899	9	*
Industrial Truck and Tractor Operators	97947	152	0.2
All Other Transportation and Material Moving Equipment Operators	97989	24	*
Mechanic and Repairer Helpers	98102	99	0.1
Machine Feeders and Offbearers	98502	20	*
Freight, Stock, and Material Movers, Hand	98700	312	0.4
Hand Packers and Packagers	98902	46	0.1
Vehicle Washers and Equipment Cleaners	98905	168	0.2
All Other Helpers, Laborers, and Material Movers, Hand	98999	357	0.5

SIC 70 HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	7,742	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,079	13.93	-	-
Food Service and Lodging Managers	342	4.41	23.06	66.67
All Other Managers and Administrators	737	9.52	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	406	5.24	-	-
All Other Financial Specialists	157	2.03	N.A.	N.A.
All Other Management Support Workers	76	0.98	N.A.	N.A.
All Other Engineers	8	0.10	N.A.	N.A.
All Other Engineering and Related Technicians and Technologists	4	0.05	N.A.	N.A.
All Other Health Practitioners, Technologists, Technicians, and Related Health Occupations	2	0.03	N.A.	N.A.
All Other Professional, Para-professional and Technical Workers	159	2.05	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	314	4.06	-	-
Cashiers	199	2.56	31.95	29.17
All Other Sales Representatives and Salespersons, Service	66	0.85	N.A.	N.A.
All Other Sales and Related Workers	49	0.63	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,364	17.62	-	-
All Other Office Machine Operators	21	0.27	N.A.	N.A.
All Other Material Recording, Scheduling and Distributing Workers	5	0.06	N.A.	N.A.
All Other Clerical and Administrative Support Workers	1,338	17.28	N.A.	N.A.
SERVICE OCCUPATIONS	4,098	52.93	-	-
Guards and Watch Guards	17	0.22	16.84	12.50
All Other Protective Service Workers	7	0.09	N.A.	N.A.

SIC 70 HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Waiters and Waitresses	1,229	15.84	24.22	54.17
Dining Room and Cafeteria Attendants, and Bartender Helpers	187	2.41	33.43	41.67
Cooks, Restaurant	386	4.97	21.78	66.67
Food Preparation Workers	474	6.11	26.55	62.50
All Other Food Service Workers	472	6.10	N.A.	N.A.
Maids and Housekeeping Cleaners	643	8.29	32.57	54.17
All Other Cleaning and Building Service Workers, Except Private Households	613	7.92	N.A.	N.A.
All Other Service Workers	70	0.90	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	139	1.79	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	342	4.42	–	–
Maintenance Repairers, General Utility	191	2.46	30.91	58.33
All Other Mechanics, Installers and Repairers	6	0.08	N.A.	N.A.
All Other Construction and Extractive Workers	14	0.18	N.A.	N.A.
All Other Machine Operators and Tenders	58	0.75	N.A.	N.A.
All Other Transportation and Material Moving Equipment Operators	70	0.90	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	3	0.04	N.A.	N.A.

SIC 72 PERSONAL SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	5,465	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	325	5.95	-	-
Financial Managers	85	1.56	22.59	18.40
General Managers and Top Executives	203	3.72	18.55	34.40
All Other Managers and Administrators	37	0.68	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	844	15.44	-	-
All Other Financial Specialists	40	0.73	N.A.	N.A.
All Other Engineers	2	0.04	N.A.	N.A.
All Other Teachers and Instructors	356	6.51	N.A.	N.A.
All Other Health Professionals, Paraprofessionals, and Technicians	153	2.80	N.A.	N.A.
Funeral Directors and Morticians	94	1.72	21.80	5.60
All Other Professional, Paraprofessional and Technical Workers	199	3.64	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	419	7.67	-	-
Counter and Rental Clerks	254	4.66	34.21	12.00
All Other Sales and Related Workers	165	3.02	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	638	11.67	-	-
Bookkeeping, Accounting, and Auditing Clerks	69	1.26	28.49	16.80
All Other Office Machine Operators	7	0.13	N.A.	N.A.
All Other Material Recording, Scheduling, and Distributing Workers	12	0.22	N.A.	N.A.
All Other Clerical and Administrative Support Workers	550	10.06	N.A.	N.A.
SERVICE OCCUPATIONS	1,816	33.23	-	-
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	50	0.92	33.96	10.40

SIC 72 PERSONAL SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS OCCUPATION IN PERCENT
All Other Cleaners and Building Service Workers	20	0.37	N.A.	N.A.
Hairdressers, Hairstylists, and Cosmetologists	1,488	27.27	4.37	52.80
Manicurists	69	1.26	30.37	9.60
All Other Service Workers	189	3.46	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	2	0.04	N.A.	N.A.
PRODUCTION, CONSTRUCTION OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	1,421	26.00	-	-
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance, and Related Occupations	13	0.24	N.A.	N.A.
All Other Inspectors, Testers, and Related Occupations	38	0.70	N.A.	N.A.
All Other Mechanics, Installers, and Repairers	73	1.34	N.A.	N.A.
All Other Construction and Extractive Workers, Except Helpers	4	0.07	N.A.	N.A.
All Other Precision Textile, Apparel and Furnishing Workers	50	0.92	N.A.	N.A.
Spotters, Dry Cleaning	37	0.68	34.98	7.20
Pressers, Delicate Fabrics	98	1.80	35.42	9.60
All Other Precision Workers	16	0.29	N.A.	N.A.
All Other Machine Operators and Tenders	482	8.83	N.A.	N.A.
Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	218	4.00	25.69	12.00
All Other Hand Workers	79	1.45	N.A.	N.A.
All Other Plant and System Occupations	3	0.05	N.A.	N.A.

SIC 72 PERSONAL SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS OCCUPATION IN PERCENT
All Other Transportation and Material Moving Equipment Operators	154	2.82	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	156	2.85	N.A.	N.A.

SIC 76 MISCELLANEOUS REPAIR SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	1,036	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	102	9.85	–	–
Financial Managers	25	2.41	23.63	20.37
General Managers and Top Executives	76	7.32	14.09	51.85
All Other Managers and Administrators	1	0.10	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	22	2.12	–	–
All Other Financial Specialists	7	0.67	N.A.	N.A.
Purchasing Agents-Except Wholesale, Retail, and Farm Products	6	0.58	37.27	7.41
All Other Management Support Workers	1	0.10	N.A.	N.A.
All Other Engineering and Related Technicians and Technologists	4	0.39	N.A.	N.A.
All Other Physical Scientists	1	0.10	N.A.	N.A.
All Other Physical and Life Science Technicians and Technologists	3	0.29	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	124	11.97	–	–
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	45	4.34	28.28	18.52
Sales Representatives, Except Scientific and Related Products Or Services and Retail	38	3.66	28.02	20.37
Salespersons, Retail	40	3.85	35.87	12.96
All Other Sales and Related Workers	1	0.10	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	146	14.09	–	–
Secretaries	45	4.34	32.25	22.22
Bookkeeping, Accounting, and Auditing Clerks	26	2.50	21.52	24.07
General Office Clerks	60	5.78	26.99	31.48
Traffic, Shipping, and Receiving Clerks	9	0.87	32.39	9.26

SIC 76 MISCELLANEOUS REPAIR SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
All Other Clerical and Administrative Workers	1	0.10	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.96	-	-
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10	0.96	36.88	7.41
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	632	61.00	-	-
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	33	3.18	24.43	20.37
Maintenance Repairers, General Utility	32	3.08	37.98	12.96
Bus and Truck Mechanics, and Diesel Engine Specialists	17	1.64	47.43	5.55
Small Engine Specialists	30	2.89	38.82	7.41
All Other Communications Equipment Mechanics, Installers and Repairers	25	2.41	N.A.	N.A.
Electric Motor, Transformers, and Related Repairers	59	5.68	34.37	9.26
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	60	5.79	N.A.	N.A.
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	92	8.86	38.97	12.96
All Other Mechanics, Installers and Repairers	46	4.44	N.A.	N.A.
All Other Construction and Extractive Workers, Except Helpers	19	1.83	N.A.	N.A.
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	29	2.79	30.90	11.11
All Other Precision Metal Workers	36	3.47	N.A.	N.A.
All Other Precision Woodworkers	24	2.32	N.A.	N.A.
Upholsterers	43	4.14	26.03	11.11
Sewing Machine Operators, Non-Garment	10	0.96	38.86	5.55
Welders and Cutters	69	6.65	31.58	14.81
All Other Hand Workers	2	0.19	N.A.	N.A.

SIC 76 MISCELLANEOUS REPAIR SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
All Other Motor Vehicle Operators	4	0.39	N.A.	N.A.
All Other Transportation and Material Moving Equipment Operators	1	0.10	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	1	0.10	N.A.	N.A.

SIC 79 AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	4,037	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	346	8.57	–	–
Financial Managers	50	1.24	31.25	35.55
Marketing, Advertising, and Public Relations Managers	62	1.54	27.49	33.33
General Managers and Top Executives	161	3.99	19.21	66.67
All Other Managers and Administrators	73	1.81	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	542	13.43	–	–
Accountants and Auditors	11	0.27	28.46	13.33
All Other Management Support Workers	13	0.32	N.A.	N.A.
All Other Engineers	3	0.07	N.A.	N.A.
All Other Engineering and Related Technicians and Technologists	2	0.05	N.A.	N.A.
Instructors and Coaches, Sports and Physical Training	235	5.82	35.42	22.22
All Other Teachers and Instructors	90	2.23	N.A.	N.A.
All Other Health Practitioners, Technologists, Technicians, and Related Health Occupations	8	0.20	N.A.	N.A.
Public Relations Specialists and Publicity Writers	17	0.42	11.31	15.55
Designers	12	0.30	6.97	11.11
All Other Professional, Para-professional and Technical Workers	151	3.74	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	552	13.67	–	–
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations	25	0.62	32.79	13.33
Sales Representatives, Except Scientific and Related Products Or Services and Retail	10	0.25	30.33	6.67
Cashiers	379	9.39	14.72	22.22
All Other Sales and Related Workers	138	3.42	N.A.	N.A.

SIC 79 AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	291	7.21	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	6	0.15	19.72	8.89
Secretaries	41	1.02	31.12	26.67
Bookkeeping, Accounting and Auditing Clerks	75	1.86	22.02	48.89
Payroll and Timekeeping Clerks	11	0.27	35.44	13.33
All Other Office Machine Operators	2	0.05	N.A.	N.A.
All Other Material Recording, Scheduling and Distributing Workers	5	0.12	N.A.	N.A.
All Other Clerical and Administrative Support Workers	151	3.74	N.A.	N.A.
SERVICE OCCUPATIONS	1,536	38.05	-	-
Housekeepers	16	0.40	35.13	6.67
All Other Service Supervisors and Manager/Supervisors	6	0.15	N.A.	N.A.
Guards and Watch Guards	130	3.22	30.82	8.89
All Other Protective Service Workers	9	0.22	N.A.	N.A.
Hosts and Hostesses-Restaurant, Lounge Or Coffee Shop	16	0.40	19.76	11.11
Bartenders	159	3.94	23.80	33.33
Waiters and Waitresses	252	6.24	20.73	28.89
Dining Room and Cafeteria Attendants, and Bartender Helpers	27	0.67	26.08	6.67
Counter Attendants-Lunchroom, Coffee Shop, Or Cafeteria	96	2.38	23.77	11.11
Cooks, Restaurant	54	1.34	27.52	22.22
Cooks, Short Order	24	0.59	22.40	13.33
All Other Food Service Workers	62	1.54	N.A.	N.A.
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	125	3.10	18.28	35.55
All Other Cleaning and Building Service Workers, Except Private Households	36	0.89	N.A.	N.A.
Amusement and Recreation Attendants	255	6.32	34.47	20.00

SIC 79 AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Child Care Workers	52	1.29	32.05	13.33
All Other Service Workers	217	5.38	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	351	8.69	–	–
Gardeners and Groundskeepers, Except Farm	280	6.94	21.69	35.55
All Other Agricultural, Forestry, Fishing, and Related Workers	71	1.76	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	419	10.38	–	–
First Line Supervisors and Manager/ Supervisors-Production, Construction, Maintenance and Related Occupations	20	0.50	21.74	11.11
Maintenance Repairers, General Utility	167	4.14	22.06	44.44
All Other Mechanics, Installers, and Repairers	20	0.50	N.A.	N.A.
Carpenters	19	0.47	22.02	13.33
Electricians	11	0.27	19.07	13.33
Plumbers and Pipefitters	7	0.17	29.97	6.67
All Other Construction and Extractive Workers, Except Helpers	5	0.12	N.A.	N.A.
All Other Motor Vehicle Operators	93	2.30	N.A.	N.A.
All Other Transportation and Material Moving Equipment Operators	25	0.62	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	52	1.29	N.A.	N.A.

SIC 80 HEALTH SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	17,414	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	692	3.97	–	–
Financial Managers	107	0.61	43.10	19.20
Personnel, Training, and Labor Relations Managers	20	0.11	33.13	8.00
Marketing, Advertising, and Public Relations Managers	20	0.11	28.94	7.20
Administrative Services Managers	37	0.21	18.05	12.00
Engineering, Mathematical, and Natural Sciences Managers	6	0.03	45.95	2.40
Medicine and Health Services Managers	220	1.26	24.50	30.40
Food Service and Lodging Managers	33	0.19	19.71	9.60
General Managers and Top Executives	197	1.13	19.68	34.40
All Other Managers and Administrators	52	0.30	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	6,684	38.38	–	–
All Other Financial Specialists	30	0.17	N.A.	N.A.
Personnel, Training, And Labor Relations Specialists	9	0.05	44.31	4.00
All Other Management Support Workers	7	0.04	N.A.	N.A.
All Other Life Scientists	21	0.12	N.A.	N.A.
Systems Analysts, Electronic Data Processing	8	0.05	33.31	2.40
Computer Programmers	7	0.04	48.45	3.20
Computer Programmer Aides	10	0.06	15.81	3.20
Psychologists	39	0.22	26.61	7.20
Social Workers, Medical and Psychiatric	377	2.16	20.92	16.00
Social Workers, Except Medical and Psychiatric	67	0.38	25.88	10.40
Social Service Technicians	127	0.73	37.89	9.60
Recreation Workers	75	0.43	18.81	10.40
All Other Teachers and Instructors	118	0.68	N.A.	N.A.
Physicians and Surgeons	1,110	6.37	11.74	26.40
Dentists	173	0.99	24.62	12.00
All Other Health Diagnosing and Treating Practitioners	67	0.38	N.A.	N.A.

SIC 80 HEALTH SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Occupational Therapists	78	0.45	26.77	12.00
Physical Therapists	199	1.14	36.20	17.60
Recreational Therapists	40	0.23	29.15	5.60
All Other Therapists	99	0.57	N.A.	N.A.
Registered Nurses	1,644	9.44	11.47	51.20
Licensed Practical Nurses	744	4.27	14.57	29.60
Dietitians and Nutritionists	44	0.25	17.17	11.20
Medical and Clinical Laboratory Technologists	205	1.18	45.20	7.20
Dental Hygienists	571	3.28	8.51	23.20
Medical Records Technicians and Technologists	58	0.33	14.29	8.80
Radiologic Technicians	179	1.03	44.35	8.00
All Other Health Professionals, Paraprofessionals and Technicians	535	3.07	N.A.	N.A.
Public Relations Specialists	9	0.05	38.33	5.60
All Other Professional, Paraprofessional and Technical Workers	34	0.20	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	77	0.44	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,888	22.33	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	418	2.40	17.63	32.80
Insurance Claims Clerks	48	0.28	29.14	5.60
Bill and Account Collectors	64	0.37	8.57	8.80
Medical Secretaries	795	4.56	20.72	36.00
All Other Secretaries	433	2.49	N.A.	N.A.
Receptionists and Information Clerks	614	3.52	16.50	40.80
Typists	124	0.71	34.49	12.00
Personnel Clerks	13	0.07	45.70	4.00
File Clerks	241	1.38	30.62	14.40
Interviewing Clerks, Except Personnel and Social Welfare	19	0.11	45.85	3.20
Bookkeeping, Accounting and Auditing Clerks	311	1.78	22.76	32.00
Payroll and Timekeeping Clerks	26	0.15	18.88	9.60
General Office Clerks	350	2.01	35.77	24.00
Computer Operators	14	0.08	43.57	3.20
Data Entry Keyers	52	0.30	46.41	7.20

SIC 80 HEALTH SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Switchboard Operators	56	0.32	32.98	11.20
All Other Office Machine Operators	15	0.09	N.A.	N.A.
Stock Clerks, Stockroom, Warehouse Or Storage Yard	8	0.05	30.36	4.00
All Other Material Recording, Scheduling and Distributing Workers	11	0.06	N.A.	N.A.
All Other Clerical and Administrative Workers	276	1.58	N.A.	N.A.
SERVICE OCCUPATIONS	5,468	31.40	-	-
Housekeepers	118	0.68	22.17	15.20
All Other Service Supervisors and Manager/Supervisors	38	0.22	N.A.	N.A.
Cooks, Institution Or Cafeteria	165	0.95	8.21	14.40
Food Preparation Workers	435	2.50	16.71	12.00
All Other Food Service Workers	173	0.99	N.A.	N.A.
Nursing Aides, Orderlies, and Attendants	1,894	10.87	8.34	20.80
Home Health Aides	737	4.23	37.55	11.20
Physical and Corrective Therapy Assistants and Aides	34	0.20	30.75	7.20
Occupational Therapy Assistants and Aides	14	0.08	46.35	4.00
Dental Assistants	681	3.91	9.21	23.20
All Other Health Service Workers	468	2.69	N.A.	N.A.
Maids and Housekeeping Cleaners	235	1.35	25.20	10.40
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	121	0.69	35.62	15.20
All Other Cleaning and Building Service Workers, Except Private Households	5	0.03	N.A.	N.A.
Social Welfare Service Aides	278	1.60	36.68	4.80
All Other Service Workers	72	0.41	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	605	3.47	-	-
First Line Supervisors and Manager/ Supervisors-Production, Construction, Maintenance and Related Occupations	24	0.14	37.10	4.80
Maintenance Repairers, General Utility	96	0.55	14.31	16.80

SIC 80 HEALTH SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
All Other Mechanics, Installers and Repairers	27	0.16	N.A.	N.A.
All Other Construction and Extractive Workers, Except Helpers	7	0.04	N.A.	N.A.
All Other Precision Workers	241	1.38	N.A.	N.A.
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	123	0.71	16.12	11.20
All Other Machine Setters and Set-Up Operators	8	0.05	N.A.	N.A.
All Other Hand Workers	14	0.08	N.A.	N.A.
Truck Drivers, Light-Include Delivery and Route Workers	62	0.32	45.15	5.60
All Other Transportation and Material Moving Equipment Operators	3	0.02	N.A.	N.A.

SIC 81 LEGAL SERVICES
REFERENCE DATE: May 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	3,832	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	56	1.46	-	-
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	1,732	45.20	-	-
All Other Financial Specialists	12	0.31	N.A.	N.A.
Lawyers	1,115	29.10	9.85	95.00
Law Clerks	118	3.08	45.81	30.00
Paralegal Personnel	445	11.62	17.85	80.00
All Other Legal Assistants and Technicians, Except Clerical	19	0.50	N.A.	N.A.
All Other Professional, Paraprofessional, and Technical Workers	23	0.60	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,999	52.17	-	-
Legal Secretaries	1,249	32.60	8.28	100.00
All Other Secretaries	37	0.97	N.A.	N.A.
Receptionists and Information Clerks	191	4.99	29.46	65.00
Bookkeeping, Accounting and Auditing Clerks	282	7.36	17.48	95.00
All Other Office Machine Operators	33	0.86	N.A.	N.A.
All Other Clerical and Administrative Support Workers	207	5.40	N.A.	N.A.
SERVICE OCCUPATIONS	45	1.17	N.A.	N.A.

SIC 83 SOCIAL SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	7,532	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	905	12.02	-	-
Financial Managers	108	1.43	20.26	34.55
Personnel, Training, and Labor Relations Managers	28	0.37	34.66	11.82
Marketing, Advertising, and Public Relations Managers	39	0.52	11.55	10.91
Administrative Services Managers	60	0.80	21.13	13.64
Engineering, Mathematical and Natural Sciences Managers	4	0.05	22.36	2.73
Education Administrators	130	1.72	16.72	27.27
Medicine and Health Services Managers	60	0.80	41.03	12.73
Food Service and Lodging Managers	59	0.78	45.18	16.36
General Managers and Top Executives	344	4.56	14.35	60.00
All Other Managers and Administrators	73	0.97	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	2,729	36.23	-	-
Accountants and Auditors	24	0.32	33.52	10.91
All Other Financial Specialists	3	0.04	N.A.	N.A.
Personnel, Training, and Labor Relations Specialists	30	0.40	23.09	4.55
All Other Management Support Workers	30	0.40	N.A.	N.A.
Psychologists	62	0.82	31.39	9.09
Social Workers, Medical and Psychiatric	212	2.81	30.27	9.09
Social Workers, Except Medical and Psychiatric	344	4.56	27.92	25.45
Social Service Technicians	324	4.30	28.45	14.55
Recreation Workers	32	0.42	25.66	8.18
All Other Religious Workers	6	0.08	N.A.	N.A.
Teachers, Preschool and Kindergarten	729	9.67	9.51	39.09
Teachers and Instructors, Vocational Education and Training	57	0.76	21.57	8.18
Instructors, Nonvocational Education	188	2.49	33.71	11.82
All Other Teachers and Instructors	123	1.63	N.A.	N.A.
Vocational and Educational Counselors	38	0.50	27.14	7.27
Instructional Coordinators	44	0.58	32.04	8.18

SIC 83 SOCIAL SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Occupational Therapists	24	0.32	27.20	9.09
Physical Therapists	6	0.08	13.95	2.73
Speech Pathologists and Audiologists	17	0.23	41.26	7.27
All Other Therapists	9	0.12	N.A.	N.A.
Registered Nurses	187	2.48	15.12	23.64
Licensed Practical Nurses	105	1.39	19.76	18.18
Dietitians and Nutritionists	22	0.29	17.37	8.18
All Other Health Professionals, Paraprofessionals and Technicians	48	0.64	N.A.	N.A.
Public Relations Specialists and Publicity Writers	54	0.72	41.31	6.36
All Other Professional, Paraprofessional and Technical Workers	11	0.15	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	36	0.48	-	-
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,526	20.26	-	-
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	50	0.66	31.09	12.73
Welfare Eligibility Workers and Interviewers	83	1.10	22.58	5.45
Teacher Aides and Educational Assistants, Clerical	580	7.70	12.87	37.27
Secretaries	263	3.49	13.57	53.64
Receptionists and Information Clerks	57	0.76	10.61	18.18
Typists	29	0.38	25.99	5.45
Typists, Word Processor	21	0.28	24.84	6.36
Personnel Clerks	7	0.09	22.13	7.27
File Clerks	8	0.11	11.86	3.64
Bookkeeping, Accounting, and Auditing Clerks	148	1.96	13.84	43.64
Payroll and Timekeeping Clerks	15	0.20	37.54	7.27
Billing, Cost and Rate Clerks	4	0.05	15.81	2.73
General Office Clerks	191	2.53	32.87	16.36
Computer Operators	4	0.05	13.69	2.73
Data Entry Keyers	9	0.12	24.09	4.55
Switchboard Operators	12	0.16	10.21	6.36
All Other Material Recording, Scheduling and Distributing Workers	2	0.02	N.A.	N.A.

SIC 83 SOCIAL SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
All Other Clerical and Administrative Support Workers	43	0.57	N.A.	N.A.
SERVICE OCCUPATIONS	1,886	25.04	–	–
Housekeepers	52	0.69	19.24	11.82
All Other Service Supervisors and Manager/Supervisors	27	0.36	N.A.	N.A.
Waiters and Waitresses	33	0.44	45.16	2.73
Cooks, Institution Or Cafeteria	182	2.41	19.54	31.82
Food Preparation Workers	155	2.06	22.22	21.82
All Other Food Service Workers	21	0.28	N.A.	N.A.
Nursing Aides, Orderlies, and Attendants	227	3.01	24.64	9.09
Home Health Aides	268	3.56	35.73	4.55
Occupational Therapy Assistants and Aides	10	0.13	10.95	2.73
All Other Health Service Workers	45	0.60	N.A.	N.A.
Maids and Housekeeping Cleaners	97	1.29	28.57	11.82
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	127	1.69	20.12	26.36
All Other Cleaners and Building Service Workers	5	0.07	N.A.	N.A.
Child Care Workers	476	6.32	20.26	24.55
All Other Service Workers	161	2.14	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	7	0.09	–	–
Gardeners and Groundskeepers, Except Farm	7	0.09	19.69	5.45
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND RELATED OCCUPATIONS	443	5.88	–	–
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related Occupations	30	0.40	N.A.	N.A.
Inspectors and Related Occupations	4	0.05	32.60	2.73
Maintenance Repairers, General Utility	73	0.97	23.52	19.09

SIC 83 SOCIAL SERVICES
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
All Other Mechanics, Installers and Repairers	1 /	0.01	N.A.	N.A.
Carpenters	27	0.36	28.47	2.73
Precision Production Occupations	1	0.01	N.A.	N.A.
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	29	0.38	28.48	8.18
Hand Workers	78	1.03	22.82	4.55
Bus Drivers	105	1.39	48.70	8.18
Bus Drivers, School	24	0.32	46.00	5.45
All Other Motor Vehicle Operators	58	0.77	N.A.	N.A.
All Other Transportation and Material Moving Equipment Operators	3	0.04	N.A.	N.A.
All Other Helpers, Laborers, and Material Movers, Hand	10	0.13	N.A.	N.A.

SIC 86 MEMBERSHIP ORGANIZATIONS
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	2,825	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	598	21.17	-	-
Financial Managers	144	5.11	15.97	39.39
Marketing, Advertising, and Public Relations Managers	46	1.63	17.17	15.15
Food Service and Lodging Managers	31	1.10	34.20	10.61
General Managers and Top Executives	169	6.00	22.83	45.45
All Other Managers and Administrators	208	7.36	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	533	18.87	-	-
All Other Financial,Specialists	23	0.82	N.A.	N.A.
All Other Management Support Workers	90	3.19	N.A.	N.A.
All Other Engineering and Related Technicians and Technologists	1	0.04	N.A.	N.A.
Recreation Workers	144	5.11	21.98	15.15
All Other Religious Workers	5	0.18	N.A.	N.A.
All Other Legal Assistants and Technicians, Except Clerical	4	0.14	N.A.	N.A.
Instructors and Coaches, Sports and Physical Training	92	3.27	20.83	10.61
All Other Teachers and Instructors	131	4.64	N.A.	N.A.
All Other Professional, Para-professional and Technical Workers	43	1.52	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	77	2.73	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	532	18.83	-	-
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	27	0.96	32.44	18.18
Secretaries	184	6.53	15.23	43.94
Receptionists and Information Clerks	68	2.41	29.27	24.24
Typists	9	0.32	25.82	7.57

SIC 86 MEMBERSHIP ORGANIZATIONS
REFERENCE DATE: April 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
Bookkeeping, Accounting, and Auditing Clerks	92	3.27	22.23	40.91
Mail Machine Operators, Preparation and Handling	8	0.28	22.36	4.55
All Other Office Machine Operators	10	0.35	N.A.	N.A.
All Other Material Recording, Scheduling, and Distributing Workers	29	1.03	N.A.	N.A.
All Other Clerical and Administrative Support Workers	105	3.72	N.A.	N.A.
SERVICE OCCUPATIONS	979	34.65	-	-
All Other Service Supervisors and Manager/Supervisors	4	0.14	N.A.	N.A.
Bartenders	671	23.82	10.17	37.88
All Other Food Service Workers	43	1.52	N.A.	N.A.
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	137	4.86	24.11	25.76
All Other Cleaning and Building Service Workers, Except Private Households	24	0.85	N.A.	N.A.
Child Care Workers	26	0.92	26.95	6.06
All Other Service Workers	74	2.62	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	17	0.60	-	-
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	89	3.15	-	-
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance, and Related Occupations	25	0.89	N.A.	N.A.
Maintenance Repairers, General Utility	60	2.13	37.01	12.12
All Other Machine Operators and Tenders	2	0.07	N.A.	N.A.
All Other Motor Vehicle Operators	2	0.07	N.A.	N.A.

SIC 893 ACCOUNTING, AUDITING AND BOOKKEEPING
REFERENCE DATE: June 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
TOTAL ALL OCCUPATIONS	1,554	100.00		
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	140	9.01	–	–
Administrative Services Managers	16	1.03	44.15	16.28
General Managers and Top Executives	96	6.19	16.39	30.23
All Other Managers and Administrators	28	1.80	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	708	45.56	–	–
Tax Preparers	75	4.83	40.76	20.93
Accountants and Auditors	584	37.63	8.98	76.74
All Other Financial Specialists	20	1.29	N.A.	N.A.
All Other Management Support Workers	4	0.26	N.A.	N.A.
Systems Analysts, Electronic Data Processing	6	0.39	19.72	6.98
Computer Programmers	10	0.64	24.70	6.98
All Other Professional, Paraprofessional and Technical Workers	9	0.58	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	11	0.71	–	–
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	671	43.18	–	–
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	54	3.48	19.08	37.21
Secretaries	195	12.56	14.29	76.74
Receptionists and Information Clerks	34	2.19	24.90	30.23
Typists, Word Processor	43	2.77	23.65	32.56
Bookkeeping, Accounting, and Auditing Clerks	144	9.28	22.18	48.84
General Office Clerks	69	4.45	24.43	41.86
Computer Operators	45	2.90	32.16	18.60
All Other Office Machine Operators	58	3.74	N.A.	N.A.
All Other Material Recording, Scheduling, and Distributing Workers	2	0.13	N.A.	N.A.
All Other Clerical and Administrative Support Workers	27	1.74	N.A.	N.A.

SIC 893 ACCOUNTING, AUDITING AND BOOKKEEPING
REFERENCE DATE: June 12, 1987

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR IN PERCENT	ESTABLISHMENTS REPORTING OCCUPATION IN PERCENT
SERVICE OCCUPATIONS	24	1.54	–	–
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	16	1.03	49.05	9.30
All Other Cleaners and Building Service Workers, Except Private Households	2	0.13	N.A.	N.A.
All Other Service Workers	6	0.39	N.A.	N.A.

APPENDIX

The OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, government or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39999 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathematicians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49999 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers; Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
SEPARATELY BECAUSE THEY DID NOT MEET THE CRITERIA FOR PUBLICATION (SEE APPENDIX)
THEY WERE HOWEVER ADDED TO THE APPROPRIATE "ALL OTHER" OR RESIDUAL CATEGORY
AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Accountants and Auditors	X	X	X			X	X		X		X		X	X		X	
Actuaries						X											
Administrative Services Managers		X				X	X	X	X	X		X				X	
Adjustment Clerks					X	X	X										
Air Hammer Operators		X															
Ambulance Drivers and Attendants, Except Emergency Medical Technicians										X							
Amusement and Recreation Attendants									X				X			X	
Animal Caretakers, Except Farm												X				X	
Announcers, Except Radio and Television												X					
Appraisers, Real Estate				X	X												
Automotive Mechanics	X	X								X	X						
Bakers, Bread and Pastry									X								
Barbers										X							
Bill and Account Collectors						X	X						X				
Billing, Cost and Rate Clerks	X	X		X	X		X		X	X		X	X			X	
Billing, posting, and Calculating Machine Operators	X				X								X		X		
Blasters and Explosives Workers		X															
Brick Masons	X																
Brokers, Real Estate				X													
Budget Analysts									X				X		X		X
Bus and Truck Mechanics, and Diesel Engine Specialists	X	X	X														
Bus Drivers												X					
Carpenters		X	X					X	X								
Carpet Installers			X														
Cashiers				X	X					X			X		X	X	
Ceiling Tile Installers and Acoustical Carpenters			X														

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
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AN X IS PLACED IN THE SQUARE CORRESPONDINC TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Child Care Workers										X			X				
Civil Engineers, Including Traffic	X																
Civil Engineering Technicians and Technologists	X	X															
Clergy													X		X	X	
Coin and Vending Machine Servicers and Repairers												X					
Combined Food Preparation and Service Workers									X			X					
Computer Programmers		X	X	X	X		X	X	X	X		X			X	X	
Computer Programmer Aides		X			X	X	X	X	X	X					X	X	X
Computer Operators, Except Peripheral Equipment	X	X				X		X	X	X						X	
Concrete and Terrazzo Finishers	X		X														
Construction and Building Inspectors		X					X										
Cooks, Institution Or Cafeteria									X							X	
Cooks, Restaurant																X	
Cooks, Short Order									X								
Cooks, Specialty Fast Food												X					
Correspondence Clerks				X		X	X										
Cost Estimators	X							X			X						
Counter Attendants-Lunchroom, Coffee Shop, Or Cafeteria									X						X		
Counter and Rental Clerks												X					
Crane and Tower Operators	X	X	X														
Credit Analysts					X		X										
Credit Authorizers				X													
Custom Tailors and Sewers										X							
Dancers and Choreographers												X					
Data Entry Keyers, Except Composing	X	X			X		X	X	X	X				X		X	X

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
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AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Designers, Ecxept Interior Designers																	
Detectives and Investigators, Except Public									X			X					
Dining Room and Cafeteria Attendants, and Bartenders Helpers													X		X		
Directors, Religious Activities and Education																X	
Drafters		X	X					X									
Dragline Operators	X																
Driver/Sales Workers										X							
Duplicating Machine Operators						X											
Farth Drillers Except Oil and Gas			X														
Economists, Including Market Research Analysts				X													
Education Administrators																X	
Electrical and Electronic Engineers												X					
Electrical and Electronic Engineering Technicians and Technologists	X	X	X									X					
Electric Home Appliance and Power Tool Repairers											X						
Electrical Powerline Installers and Repairers		X															
Electricians	X	X							X	X	X						
Electromedical and Biomedical Equipment Repairers													X				
Elevator Operators									X								
Embalmers										X							
Engineering and Related Technicians and Technologists									X							X	
Engineers									X	X							
Fence Erectors		X	X														
File Clerks	X	X								X				X			X
Financial Analysts, Statistical																	
Financial Managers	X	X							X					X			X
First Line Supervisors and Manager/Supervisors-Clerical and Administrative	X	X	X						X	X				X			
Support Occupations																	

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
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OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers								X									
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand	X	X															
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	X	X	X														
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations		X			X				X	X					X	X	
First Line Supervisors and Manager/Supervisors-Service		X			X			X		X							
First Line Supervisors and Manager/Supervisors-Transportation, and Material Moving Machine and Vehicle Occupations	X	X															
Food and Beverage Preparation and Service Occupations					X					X							
Food Preparation Workers												X				X	
Food Service and Lodging Managers												X					
Funeral Attendants										X							
Gardeners and Groundskeepers, Except Farm		X		X					X	X							
General Managers and Top Executives									X					X			
General Office Clerks	X								X	X		X		X		X	
Glaziers			X														
Grader, Dozer, and Scraper Operators	X																
Guards and Watch Guards					X			X					X		X	X	X
Hairdressers, Hairstylists, and Cosmetologists													X				
Handworking Occupations, Including Assemblers and Fabricators													X				
Hard Tile Setters			X														
Helpers-Brick and Stone Masons, and Hard Tile Setters	X		X														
Helpers-Carpenters and Related	X	X	X														
Helpers-Extractive Workers		X	X														
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons		X															
Helpers-Plumbers, Pipefitters, and Steamfitters	X																

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
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AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Helpers-Roofers			X														
Hoist and Winch Operators	X	X	X														
Hosts and Hostesses-Restaurant, Lounge Or Coffee Shop									X						X		
Industrial Truck and Tractor Operators	X		X									X					
Inspectors and Related Occupations		X											X				
Instructional Coordinators																X	
Instructors and Coaches, Sports and Physical Training										X					X		
Instructors, Nonvocational Education												X	X			X	
Insulation Workers			X														
Insurance Examining Clerks				X			X										
Interviewing Clerks, Except Personnel and Social Welfare																	
Janitors and Cleaners, Except Maids and Housekeeping Cleaners		X					X		X					X			
Lawyers				X	X	X		X							X	X	
Lecturers										X							
Legal Secretaries								X									
Librarians, Professional																	X
Loan and Credit Clerks								X									
Machinery Maintenance Mechanics										X							
Machinery Maintenance Workers		X															
Machinists											X						
Machine Feeders and Offbearers										X							
Machine Setters, Set-Up Operators, and Tenders						X											
Maids and Housekeeping Cleaners								X		X		X				X	
Mail Clerks, Except Mail Machine Operators and Postal Service					X	X	X									X	X
Mail Machine Operators, Preparation and Handling							X										

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
SEPARATELY BECAUSE THEY DID NOT MEET THE CRITERIA FOR PUBLICATION (SEE APPENDIX)
THEY WERE HOWEVER ADDED TO THE APPROPRIATE "ALL OTHER" OR RESIDUAL CATEGORY
AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Maintenance Repairers, General Utility	X	X	X		X					X						X	
Management Analysts				X	X												
Manicurists										X							
Marketing, Advertising, and Public Relations Managers	X	X			X	X		X	X	X							
Mathematical Technicians						X											
Mechanical Engineers		X															
Mechanic and Repairer Helpers		X								X		X					
Medical and Clinical Laboratory Technicians													X				
Medical Records Technicians and Technologists															X		
Medical Scientists													X				
Menders-Garments, Linens, and Related										X							
Messengers	X	X											X	X			
Metal Fabricators, Structural Metal Products			X														
Millwrights	X	X	X														
Mobile Heavy Equipment Mechanics, Except Engines	X																
Music Directors, Singers, Composers and Related Workers												X					
Musicians, Instrumental												X					
News and Street Venders, Telephone Solicitors, and Door-To-Door Sales Workers															X		
Nursing Instructors													X				
Operations and Systems Researchers and Analysts, Except Computer				X	X												
Operating Engineers	X	X	X														
Order Clerks-Materials, Merchandise, and Service		X								X		X	X				
Painters and Paperhangers, Construction and Maintenance	X	X						X	X			X	X				
Paralegal Personnel						X										X	
Parking Lot Attendants									X			X					
Paving, Surfacing, and Tamping Equipment Operators		X	X														
Payroll and Timekeeping Clerks	X	X						X	X	X						X	

ESTIMATES COVERING THE FOLLOWING OCCUPATION WERE NOT SHOWN
SEPARATELY BECAUSE THEY DID NOT MEET THE CRITERIA FOR PUBLICATION (SEE APPENDIX)
THEY WERE HOWEVER ADDED TO THE APPROPRIATE "ALL OTHER" OR RESIDUAL CATEGORY
AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Peripheral EDP Equipment Operators				X	X		X										
Personnel Clerks, Except Payroll and Timekeeping	X	X				X	X	X				X					X
Personnel, Training, and Labor Relations Managers	X	X				X	X	X	X	X		X					
Personnel, Training, and Labor Relations Specialists	X	X							X			X					X
Pharmacists													X		X		
Photographers										X							
Physical Scientists											X						
Physical and Corrective Therapy Assistants and Aides															X		
Pile Driving Operators		X															
Pipelayers			X														
Plasterers and Stucco Masons			X														
Plumbers, Pipefitters and Steamfitters	X	X							X	X	X						
Precision Compositors, Typesetters and Arrangers						X											
Precision Dental Laboratory Technicians													X				
Pressers, Hand										X							
Producers, Directors, Actors, and Other Entertainers												X					
Production, Planning, and Expediting Clerks	X	X															
Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers										X							
Proofreaders and Copy Makers				X													X
Psychiatric Aides													X		X		

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OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Public Relations Specialists and Publicity Writers							X	X	X							X	
Purchasing Agents, Except Wholesale, Retail and Farm Products	X	X	X		X		X		X			X	X		X		
Purchasing Managers	X	X						X	X	X		X	X		X		
Radiologic Technologists													X				
Recreational Therapists															X		
Receptionists and Information Clerks	X		X						X	X		X					
Registered Nurses								X		X							
Roofers			X														
Safety Engineers, Except Mining	X	X	X				X										
Sales Agents, Selected Business Services				X					X								
Salespersons, Retail											X						
Sales Representatives, Except Scientific and Related Products Or Services and Retail		X								X							
Sales Representatives, Scientific and Related Products and Services-Except Retail																	
Secretaries									X	X							
Sewers, Hand											X						
Shampooers										X							
Sheet Metal Workers			X														
Social Workers, Except Medical and Psychiatric																X	
Statictical Clerks				X									X			X	

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OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	154	16	17	60	61	631	64	65	70	72	76	79	80	81	83	86	893
Stationary Engineers																	
Stenographers													X		X	X	
Stock Clerks-Stockroom Warehouse Or Storage Yard	X	X			X	X	X		X	X		X			X		
Structural Metal Workers	X		X														
Surveying and Mapping Scientists	X																
Surveying and Mapping Technicians and Technologists		X															
Switchboard Operators	X	X				X	X	X	X	X		X		X		X	X
Systems Analysts, Electronic Data Processing		X			X	X	X		X					X	X		
Tax Preparers				X													
Teachers and Instructors, Vocational Education and Training													X				
Teachers, Preschool and Kindergarten																X	
Technical Assistants, Library															X		
Telephone and Cable TV Line Installers and Repairers		X	X														
Title Examiners and Abstractors						X								X			
Traffic, Shipping, and Receiving Clerks		X										X	X				
Truck Drivers, Light-Include Delivery and Route Workers	X	X	X								X				X		
Typists				X		X	X	X	X		X						X
Typists, Word Processor					X		X	X	X			X	X	X		X	
Underwriters			X					X									
Vocational and Educational Counselors													X			X	
Waiters and Waitresses													X			X	
Weighers, Measurers, Checkers and Samplers-Recordkeeping		X															
Welders and Cutters	X		X														

ANNUAL AVERAGE EMPLOYMENT IN NEW HAMPSHIRE

SELECTED NONMANUFACTURING INDUSTRIES*

1982 - 1987

SIC	INDUSTRY	AVERAGE EMPLOYMENT 1982	1983	1984	1985	1986	1987
14	Mining and Quarrying	377	396	404	448	549	637
15	Building Construction - General Contractors	4,966	5,844	7,539	9,823	12,047	12,859
16	Construction Other Than Building Construction	8,712	8,966	5,845	6,783	5,389	4,082
17	Construction - Special Trade Contractors	9,134	10,051	16,913	14,177	17,764	19,806
60	Banking	6,340	6,686	7,011	7,473	8,208	9,034
61	Credit Agencies Other Than Banks	1,487	1,586	1,870	2,064	2,441	3,068
62	Security and Commodity Brokers	255	338	419	500	558	581
63	Insurance	7,329	7,141	7,420	7,880	8,200	8,381
64	Insurance Agents and Brokers	2,162	2,194	2,359	2,591	2,893	3,152
65	Real Estate	2,429	2,725	3,198	3,765	4,692	5,922
66,67	Combinations of Real Estate, Insurance, Loans, Law Offices, Holding and Other Investment Offices	464	435	606	674	878	782
70	Hotels, Rooming Houses and Camps	6,885	7,085	7,749	7,924	8,193	8,400
72	Personal Services	3,493	3,860	4,368	4,747	5,151	5,466
73	Business Services	9,710	11,403	12,781	15,095	17,782	18,650
75	Automotive Repair, Services and Garages	2,124	2,317	2,508	2,992	3,340	3,312
76	Miscellaneous Repair Services	761	810	818	956	1,099	1,063
78,79	Motion Pictures, Amusement and Recreation Services	4,627	4,426	4,846	5,049	5,222	5,689
80	Health Services	24,587	25,510	27,094	28,963	30,908	32,659
81	Legal Services	2,295	2,460	2,721	3,044	3,447	3,832
82	Educational Services	8,286	8,395	8,642	8,911	9,164	9,357
83,84	Social Services, Museums, Art Galleries, Botanical and Zoological Gardens	4,636	5,262	5,999	6,661	7,291	7,780
86	Membership Organizations	2,626	2,623	2,795	2,772	2,863	3,022
89	Miscellaneous Services	3,879	4,110	3,628	4,355	5,129	5,732
TOTAL		117,564	124,623	132,533	147,647	163,208	173,266

* This table includes employment data for Hospitals (SIC 806) and Education (SIC 82) which were not Covered in the OES Survey for Selected Nonmanufacturing Industries.

METHODOLOGY

A. Sample and Survey Response

The second quarter of the 1986 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The selected nonmanufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1987 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 1,539 establishments or 78 percent of the 1,968 units surveyed. Employment reported by these units accounted for 78 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and two followups. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4 - 9 would be in one size class and those with employment of 10 - 19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of 1/2 which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1987 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by establishments and employment reported by establishments for specific occupations.

The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, miscellaneous repair services (SIC 76) lists an estimated total of 30 small engine specialists with a relative error of 39 percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of small engine specialists would not differ from the estimate by more than 12 or an estimated high of 42 or low of 18. Any specific occupation with a relative error of 50 percent or less was published separately in this report except in industries 154, 17, 61, 70, 72, 79 and 86 where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuaracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

PUBLISHING CRITERIA

The criteria used for publishing occupational estimates were as follows:

1) A response rate of at least 70 percent of the benchmark employment.

2) Industry employment of 1,000 or more.

3) A maximum relative error of 50 percent for firms with a least a 75 percent response for employment.

4) A maximum relative error of 35 percent for firms with a response rate less than 75 percent but greater than or equal to 70 percent.

5) Three or more employers reporting an occupation.

6) No one firm reporting 50 percent of the occupational estimate or two firms combined reporting 75 percent of the occupational estimate.

Estimates for an occupation which did not meet publication criteria were added to the appropriate residual category.